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WEATHER MAP.

1 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 1 July.....29·788.

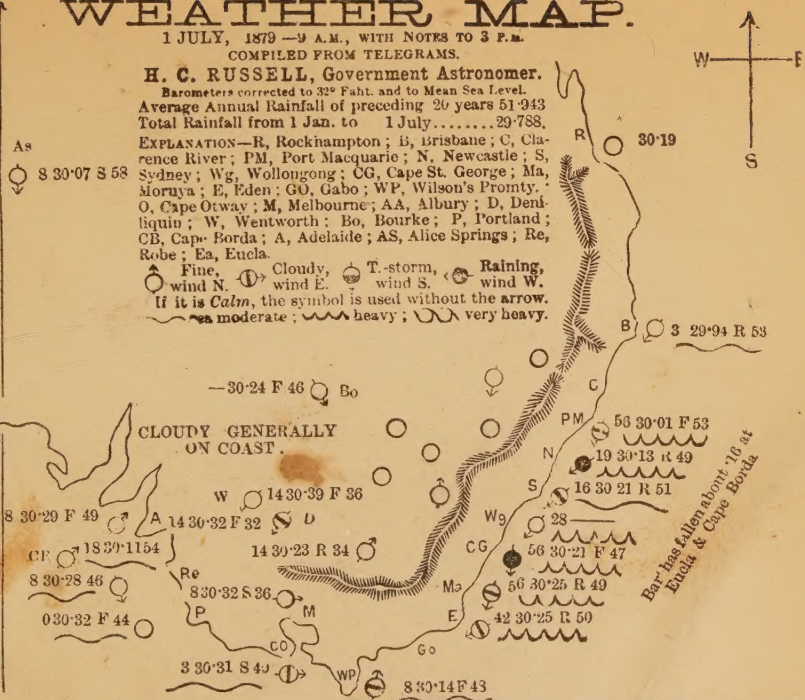
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	n	53	31	0
Grafton..	..	..	..	..
Inverell..	b	55	35	0
Walgett..	.	..	..	.
Bourke ..	b	65	36	0
Narra'ri..	.	.	..	.
Armidale.	u	51	31	0
Gunnedah	u	66	29	0
Coonab'an	n	59	29	0
P. Macqrie	q	59	50	0
Murr'undi	c	55	39	0
Cassilis ..	b	57	35	0
Mus'brook	b	57	45	0
Dubbo...	b	56	34	0
Mudgee ..	n	57	38	0
Maitland .	b	56	52	0
Newcastle	p	57	47	0·15
Orange ..	b	47	21	0
Bathurst..	n	51	27	0
Mt Victoria	u	45	33	0
Forbes...	b	57	31	0
Condob'lin	.	..	..	..
23 29·87	56	Ea		
SYDNEY	u	54	50	0·28
Wentw'th	n	61	27	0
Young...	n	56	40	0
Woll'gong	b	59	40	0
Moss Vale	c	44	38	0
Euston...	n	61	23	0
Goulburn.	u	52	39	0
Wagga ..	n	61	27	0
Cape Geo.	p	55	..	0·55
Queanb'an	b	54	26	0
Deniliquin	f	54	27	0
Albury...	b	59	26	0
Bodalla ..	u	59	40	0
Cooma...	..	.	..	..
Eden....	u	56	48	0
Gabo Isld.	..	.		..



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WEATHER MAP.

2 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

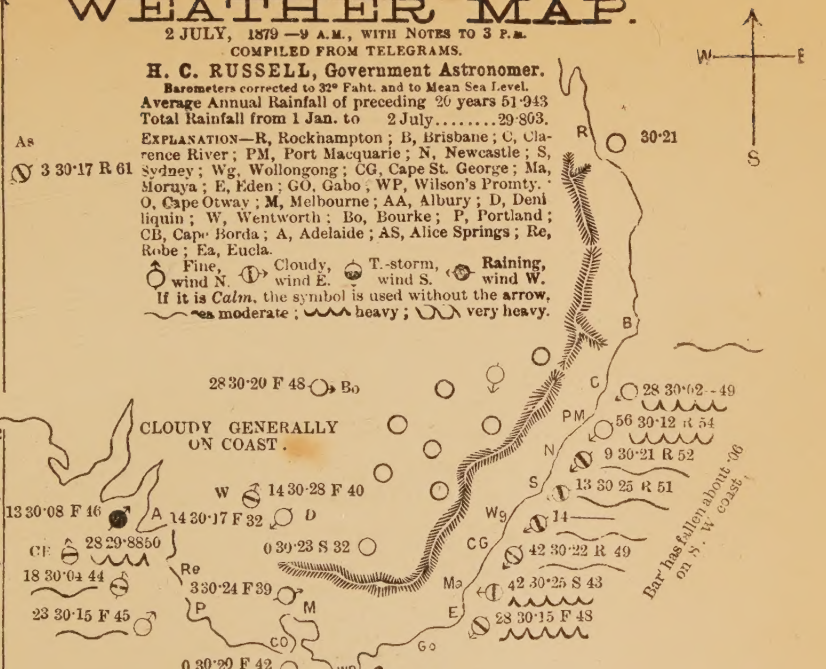
Total Rainfall from 1 Jan. to 2 July.....29·863.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow, sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	57	30	0
Grafton..	b	68	37	0
Inverell..	b	54	32	0
Walgett..	.	..	..	.
Bourke ..	n	68	39	0
Narrabri..	b	65	35	0
Armidale.	b	51	3[illegible]	0
Gunnedah	b	65	26	0
Coonab'an	n	58	21	0
P. Macqrie	b	58	50	0·06
Murr'undi	b	51	..	0
Cassilis ..	b	55	25	0
Mus'brook	b	63	35	0
Dubbo...	n	55	33	0
Mudgee ..	b	66	38	0
Maitland.	u	58	51	0
Newcastle	u	58	48	0
Orange ..	n	48	19	0
Bathurst..	b	53	23	0
MtVictoria	c	44	33	0
Forbes...	n	59	32	0
Condol'lin	.	..	..	..
SYDNEY	u	55	48	0·02
Wentw'th	b	62	31	0
Young...	n	54	40	0
Woll'gong	c	67	47	0
Moss Vale	b	45	38	0·30
Euston...	b	71	24	0
Goulburn.	n	49	23	0
Wagga ..	n	59	29	0
Cape Geo.	b	54	..	0·09
Queanb'an	b	52	27	0
Deniliquin	n	47	26	0
Albury...	f	59	25	0
Bodalla ..	b	59	38	0
Cooma...	..	.	..	..
Eden	b	56	46	0
Gabo Isld.	..	..	..	..



WEATHER MAP.

3 JULY, 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·043

Total Rainfall from 1 Jan. to 3 July.....29·810.

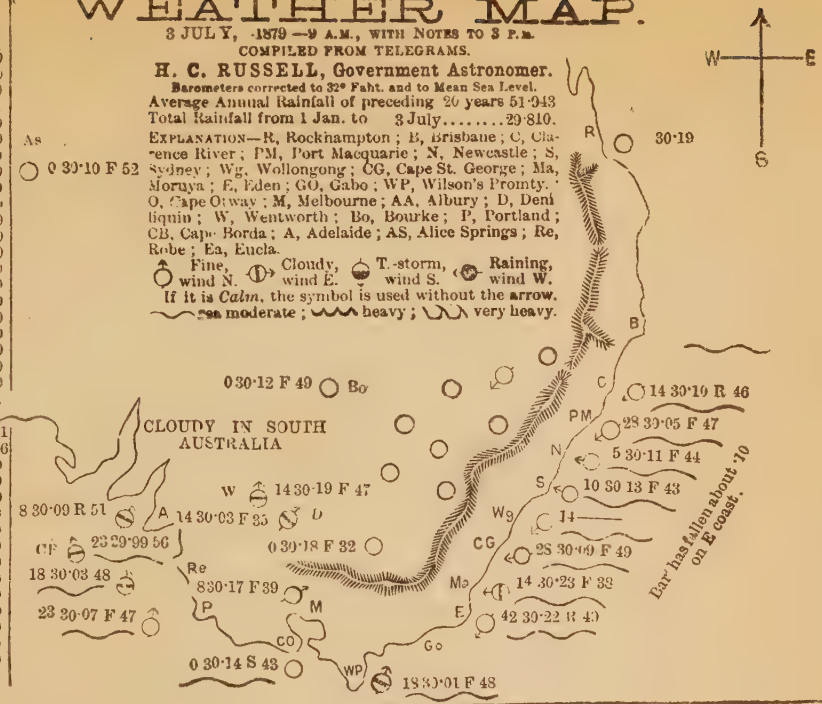
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Centerfi'd	n	52	30	0
Grafton..	b	68	34	0
Inverell..	b	57	28	0
Walgett..	.	..	..	.
Bourke..	n	69	38	0
Narrabri..	b	59	32	0
Armidale.	b	56	27	0
Gunnedah	c	67	27	0
Coonab'an	b	59	25	0
P. Macqrie	b	61	41	0
Murr'undi	n	53	33	0
Cassilis..	n	52	24	0
Mus'brook	b	60	29	0
Dubbo...	b	54	34	0
Mudgee..	fn	68	41	0
Maitland.	b	58	43	0
Newcastle	b	58	41	0
Orange..	n	47	20	0
Bathurst..	nf	53	24	0
Mt Victoria	n	47	30	0
Forbes...	n	56	35	0
Condob'lin	..	..	..	..
SYDNEY	b	56	49	0·01
Wentw'th	b	58	35	0·16
Young...	n	57	39	0
Woll'gong	b	66	41	0
Moss Vale	n	47	29	0
Euston...	r	60	39	0
Goulburn.	n	54	29	0
Wagga..	n	44	25	0
Cape Geo.	b	53	..	0
Queanb'an	b	47	24	0
Deniliquin	n	41	29	0
Albury...	fn	55	25	0
Bodalla..	n	61	30	0
Cooma...	b	58	16	0
Eden.....	n	55	44	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—JULY 4.

South Australia: Dull threatening weather, wind moderate from N.E. and N.W.; sea rough at Cape Borda; rain at Adelaide, 0·02, Eucla, 0·03, and Cape Borda, 0·21; barometer falling. Victoria: Dull at Wilson's Promontory and Portland, and fine and clear at Melbourne and Cape Otway. Heavy frost at Melbourne this morning, temperature 39°; wind moderate from N.E., barometers falling. New South Wales: Fine and frosty generally, very foggy down South near Queanbeyan, Albury, and Cooma; still raining at Euston, but amount not measured. Light westerly winds and calms are prevalent, and the barometer generally is falling. Queensland: Brisbane, fine, westerly winds, barometer rising; Rockhampton, fine. 3 p.m. Observations.—Victoria: Melbourne, barometer falling slowly, N.E., 13, cloudy; Portland, N., 28, cloudy, fine, sea smooth; Cape Otway, N.E., 13, hazy, sea smooth; Wilson's Promontory, N.E., 23, fine, sea smooth. New South Wales: Wentworth, N., 14, fine, 63°; Deniliquin, N.E., 11, dull and threatening, 57°; Albury, calm, cloudy and dull, 49°; Goulburn, W., fine, 56°; Eden, S.W., 14, detached clouds, light sea, 55°; Moruya, S.E., 30, cloudy, heavy easterly swell; Cape George, S., 28, fine, heavy sea, 56°; Sydney, W., 14, fine, cool and clear, 54°; Port Macquarie, S.S.W., 28, fine, heavy E. sea, 57°; Clarence River, N.W., 14, sea smooth, 62°. State of Rivers: Murrumbidgee—At Hay, 5 feet 6 inches above summer level; Balranald, 10 feet 3 inches above summer level. Murray—At Euston, 8 feet 6 inches above summer level. Darling—At Wentworth, 12 feet 4 inches above summer level; Pooncarie, 20 feet above summer level; Menindie, 23 feet 11 inches above summer level; Wilcannia, 30 feet 4 inches above summer level.

WEATHER MAP.

4 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 4 July.....29·811.

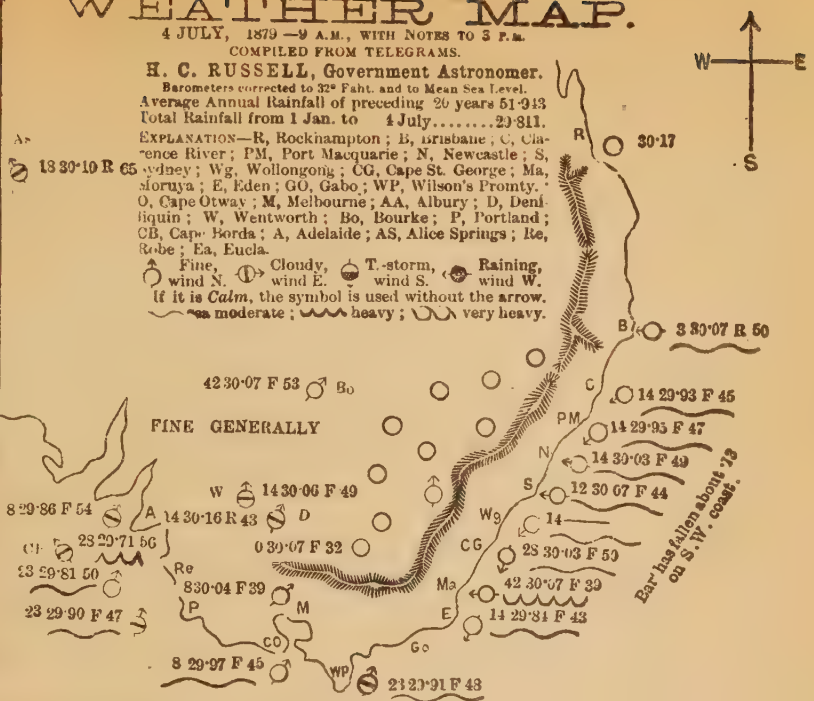
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	n	53	30	0
Grafton..	b	65	30	0
Inverell..	b	54	27	0
Walgett..	.	.	..	.
Bourke ..	b	71	40	0
Narra'ri..	..	.	..	..
Armidale.	b	55	22	0
Gunnedah	n	67	25	0
Coonab'an	b	63	23	0
P. Macqrie	b	61	43	0
Murr'undi	b	52	33	0
Cassilis ..	.	..	..	..
Mus'brook	b	62	31	0
Dubbo...	n	54	31	0
Mudgee ..	n	60	27	0
Maitland .	b	55	45	0
Newcastle	b	58	44	0
Orange ..	b	48	16	0
Bathurst..	nf	54	22	0
MtVictoria	b	50	28	0
Forbes...	n	56	31	0
Bendemeer	bf	54	20	0
SYDNEY	b	55	42	0
Wentw'th	b	63	41	0·09
Young...	n	53	36	0
Woll'gong	b	58	42	0
Moss Vale	b	47	35	0
Euston...	r	61	40	0
Goulburn.	b	54	33	0
Wagga...	n	59	27	0
Cape Geo.	b	54	..	0
Queanb'an	fn	50	24	0
Deniliquin	u	56	30	0
Albury...	fn	53	25	0
Bodalla ..	n	58	30	0
Cooma...	nf	51	22	0
Eden.....	b	55	41	0·02
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—JULY 5.

South Australia: Dull and squally, with rough sea; Cape Borr records 0.66 rain, weather squally: barometer low, and still falling, wind W. and N.W. Victoria: Dull and threatening, barometer very low, and still falling, light N. and N.N.E. winds prevail, smooth sea. New South Wales: Cloudy generally, and very cold, raining at Narrabri, Mudgee, Orange, Bathurst, Wagga, Albury, barometer falling, wind light from the N. and N.N.E., calm, ice at Moss Vale, heavy sea at Eden, and moderate at Moruya and Cape St. George; for rainfall measurements see Weather Map. Queensland: Fine and clear, sea smooth. [illegible] Observations.—Victoria: Melbourne, no report; Portland, N.N.W., 31, threatening, sea smooth; Cape Otway, barometer 29.14, N., 13, threatening, sea smooth; Wilson's Promontory, N.N.E., 23, showery, sea moderate; New South Wales, Wentworth, N.W., cloudy, 61°; Deniliquin, N.W., 11, cloudy, 59°; Albury, N.W., showery, thunderstorm 1.30 p.m.; Goulburn, N.W., cloudy, 57°; Forbes, calm, cloudy, 53°; Eden, N., 11, fine, moderate sea; Moruya, E.S.E., 20, fine, sea smooth; Cape George, no report; Sydney, barometer low and falling, N.N.W., 14, very fine; Newcastle, N.N.W., 10, cloudy, 57°, no [illegible]; Macquarie, N.N.E., 20, cloudy, 60°, sea smooth; Clarence [illegible], N., 63°, sea smooth. State of Rivers: Murrumbidgee at Hay, 5 feet 6 inches above summer level; Balranald, 8 feet [illegible] summer level. Murray—At Albury, 2 feet 10 inches above summer level; Euston, 7 feet above summer level. [illegible]—At Wentworth, 12 feet 5 inches above summer level; [illegible]carie, 20 feet above summer level; Menindie, 23 feet [illegible] inches above summer level; Wilcannia, 30 feet 10 inches above summer level.

WEATHER MAP.

5 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 5 July.....29·811.

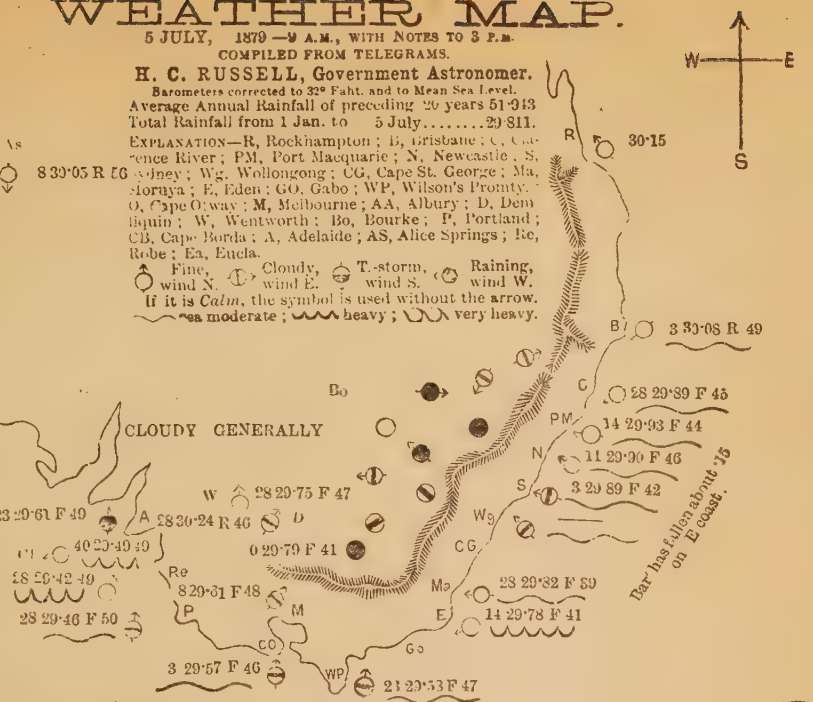
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	With'r	Max	Min	Rain
Centerf'ld	g	51	30	0
Grafton..	b	60	30	0
Inverell..	g	51	28	0
Walgett..	..	..	..	..
Bourke..	..	..	..	..
Narran'ri..	r	60	43	0
Armidale.	b	54	27	0
Grenfell	..	..	..	..
Goulb'rn	b	62	25	0·08
P. Macqrie	b	60	37	0
Maitland	u	51	35	0
Cassilis .	u	49	33	0·02
Mus'brook	g	59	32	0
Dubbo...	b	52	35	0
Mudgee..	p	62	36	0
Maitland.	g	59	42	0
Newcastle	o	62	40	0
Orange ..	r	53	21	0·16
Bathurst..	r	52	24	0
MtVictoria	g	46	33	0
Forbes...	b	53	30	0·08
Bendemeer	b	52	13	0
34 29·81 52 Ea				
SYDNEY	c	55	41	0
Wentw'th	b	65	41	0·21
Young...	g	54	46	0·10
Woll'gong	c	61	42	0
Moss Vale	n	48	31	0
Euston...	b	63	43	0·20
Goulburn.	g	54	30	0
Wagga ..	r	48	31	0·25
Cape Geo.	..	..	..	..
Queanb'an	u	51	30	0
Deniliquin	b	57	39	0·21
Albury...	r	49	28	0·18
Dodalla ..	n	62	28	0
Cooma...	n	53	20	0
Eden ...	b	55	39	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—JULY 7.

South Australia reports heavy rains and showery, with a rising barometer and strong S.W. and westerly squalls of wind. Rain at Adelaide, 1.21; Cape Borda, 0.37; Eucla, 0.03; and Robe, 0.65. Victoria: Squally and showery, with strong W. and S.W. winds. Rain at Melbourne, 0.08; Cape Otway, 0.04; and Portland, 1.37. Sea rough, barometer rising. New South Wales: fine generally up north and to west of range; dull and raining down south of the coast and inland as far as Young and Wagga; sea smooth, barometer falling. For rain measurements, see Weather Map. Queensland: Brisbane, no telegrams; Rockhampton, fine, 3 p.m. Observations.—Victoria: Melbourne, barometer falling, W.N.W., 18, threatening; Portland, W.S.W., 48, squally with rain, sea smooth; Cape Otway, W., 56, squally with rain, moderate sea; Wilson's Promontory, W., 28, squally, sea rough. New South Wales: Wentworth, S.W., cloudy, 61; Deniliquin, W., 28, cloudy, temperature 54°; Albury, S.W., moderate breeze, showery, 53°; Goulburn, W.N.W., cloudy, 54; Forbes, calm, cloudy, 52°; Moruya, W., 56, detached clouds, sea smooth, 60°; Cape George, W., 20, fine, sea smooth; Sydney, W.N.W., 40, fine, sea smooth, 56°; Newcastle, W.N.W., strong, sea smooth, fine, 58°; Port Macquarie, W., 56, sea smooth, fine, 61°. A heavy westerly gale is blowing in this colony and in Victoria, west of our dividing range; and on the coast of Victoria it is accompanied by rain, and generally it is very cold; barometer is unsteady, but not changing much. State of Rivers: Murrumbidgee—At Wagga, 5 feet above summer level; Hay, 5 feet 6 inches above summer level; Balranald, 8 feet 9 inches above summer level. Murray—At Albury, 2 feet 9 inches above summer level; Euston, 9 feet above summer level. Darling—At Wentworth, 12 feet 7 inches above summer level; Pooncarie, 20 feet above summer level; Menindie, 24 feet above summer level; Wilcannia, 29 feet 11 inches above summer level.

WEATHER MAP.

7 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

Total Rainfall from 1 Jan. to 7 July.....29·820.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	51	40	0
Grafton..	b	56	39	0
Inverell..	b	54	33	0
Walgett..	..	..	..	..
Bourke ..	b	68	42	0
Narrabri..	..	..	..	..
Armidale.	b	57	27	0
Gunnedah	u	63	38	0·10
Coonab'an	b	58	40	0
P. Macqrie	b	65	47	0
Murr'undi	b	53	33	0
Cassilis ..	b	61	35	0
Mus'brook	b	64	54	0
Dubbo...	u	58	39	0·14
Mudgee ..	u	60	39	0·14
Maitland .	b	59	46	0
Newcastle	b	62	49	0
Orange ..	r	46	28	0·35
Bathurst..	p	50	34	0·66
MtVictoria	b	40	30	0·12
Forbes...	u	54	37	0
Bendemeer	b	54	20	0
SYDNEY	b	61	49	0·01
Wentw'th	b	59	36	0·11
Young...	r	50	47	0·60
Woll'gong	b	64	48	0
Moss Vale	b	44	37	0·09
Euston...	b	56	38	0
Goulburn.	u	56	37	0·45
Wagga ..	r	53	37	0
Cape Geo.	b	54	..	0
Queanb'an	b	45	35	0·57
Deniliquin	b	47	33	0·09
Albury...	p	52	39	6
Bodalla ..	u	61	27	0
Cooma...	n	49	31	0·01
Eden.....	u	56	42	0
Gabo Isld.	u	58	44	0·05

METEOROLOGICAL REPORTS.—JULY 8.

South Australia: Showery and squally, barometer rising, wind west; sea rough at Cape Borda; rain at Adelaide, 0·12; Robe 0·08; Eucla, 0·07; and Cape Borda, 0·16. Victoria: Squally and showery, with rough sea and strong W. and N.W. winds; rain at Melbourne, 0·02; Cape Otway, 0·22; Wilson's Promontory, 0·07; and Portland, 0·19. New South Wales: Dull down S.W., near Albury, Deniliquin, and Queanbeyan; raining at Wagga Wagga; fine elsewhere; barometer rising; wind W.; see map for rain measurements. Queensland: Fine and clear, with rising barometer. 3 p.m. Observations.—Victoria: Melbourne, barometers falling slowly, N., 23, threatening; Portland, no report; Cape Otway, W.N.W., 56, showery, rough sea; Wilson's Promontory, W., 34, squally with rain, rough sea. New South Wales: Wentworth, N.W., cloudy, temperature 59°; Deniliquin, N.W., cloudy, temperature 56°; Goulburn, W., cloudy, temperature 54°; Eden, S.W., 42, fine, moderate, 54°; Moruya, N.W., 42, fine, 55°, smooth sea; Cape George, line interrupted; Sydney, W., 14, fine, smooth, 51°; Newcastle, N.W., strong, fine, smooth, 57°; Port Macquarie, W., 28, fine, smooth, 61°; Clarence River, W., fine, smooth, 61°. State of Rivers:—Murrumbidgee, at Wagga, 5 feet 3 inches above summer level; at Hay, 5 feet 6 inches above summer level; at Balranald, 8 feet 6 inches above summer level. Murray, at Albury, 2 feet 10 inches above summer level; at Euston, 9 feet 1 inch above summer level. Darling, at Wentworth, 12 feet 8 inches above summer level; at Pooncarie, 20 feet above summer level; at Menindi, 24 feet above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

8 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 8 July.....29·820.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Fenterfi'ld	b	51	36	0
Grafton..	b	55	27	0
Inverell..	b	54	27	0
Walgett..	..	..	..	..
Bourke ..	b	66	44	0
Narrabri..	b	60	43	0
Armidale.	b	56	26	0
Gunnedah	b	65	26	0·04
Coonab'an	b	55	37	0
P. Macqrie	b	64	47	0
Murr'undi	b	52	34	0
Cassilis ..	u	55	42	0·01
Mus'brook	b	60	43	0
Dubbo...	c	55	41	0
Mudgee ..	u	55	42	0·06
Maitland .	b	56	49	0
Newcastle	b	59	50	0
Orange ..	c	46	22	0·28
Bathurst..	c	44	37	0·18
MtVictoria	b	40	32	0
Forbes...	b	53	37	0·12
Bendemeer	b	50	29	0
SYDNEY	b	57	48	0
Wentw'th	b	61	37	0·09
Young...	u	50	48	0·30
Woll'gong	b	63	43	0
Moss Vale	b	45	35	0
Euston...	b	58	38	0
Goulburn.	p	44	38	0·09
Wagga...	r	50	39	0·40
Cape Geo.	..	..	..	..
Queanb'an	c	47	36	0
Deniliquin	u	52	33	0·13
Albury...	b	52	38	0·15
Bodalla ..	n	63	33	0
Cooma...	b	49	..	0
Eden.....	b	57	50	0
Gabo Isld.	b	59	46	0

METEOROLOGICAL REPORTS.—JULY 9.

South Australia: Cloudy generally, squally and showery, with rough sea at Cape Borda; Adelaide reports weather clearing with a sterdy barometer, rain at Adelaide, 0·27, Borda 0·16, Robe 0·19, and Eucla 0·01. Victoria; Showery, barometer rising, wind moderate from W.N.W., sea smooth. New South Wales: Cloudy generally, raining at Mount Victoria, Bathurst, and Orange, also Wagga Wagga and Albury, barometer falling, wind W. and N.W. Queensland: Rockhampton, fine and clear; Brisbane, W., cloudy. 3 p.m. Observations. — Victoria; Melbourne, S.W., 18, barometer rising, fine, 48; Portland, S., 34, fine, smooth, temperature 50·; Cape Otway, S., 18, showery, sea moderate; Wilson's Promontory, W.N.W., 23, showery, sea moderate. New South Wales: Wentworth, S.W., fine, temperature 59·; Deniliquin, S.W., fine temperature 56·; Albury, N.W., 14, dull, temperature 56·; Goulbprn, N.W., showery, temperature 56·; Eden, W., 14, fine, sea smooth, temperature 58·; Moruya, N.W., 42, fine, smooth, temperarure 62·; Cape George, W., fine, smooth, temperature 52·; Sydney, W., 14, fine, smooth, barometer 29·72, temperature 58·; Newcastle, W.N.W., 38, fine, smooth, temperature 60.; Port Macquarie, N.W., 28, fine, smooth, temperature 61·; Clarence River, N.W., fresh, fine, smooth, temperature 54·. State of Rivers:—Murrumbidgee, at Wagga, 5 feet 6 inches above summer level; at Hay, 4 feet 6 inches above summer level. Murray, at Albury, 3 feet 6 inches above summer level. Darling, at Wentworth, 12 feet 9 inches above summer level; at Pooncarie, 20 feet above summer level; at Menindi, 24 feet above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

9 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 9 July..... 29·820.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; B, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Roebe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	u	51	31	0
Grafton..	u	55	34	0
Inverell..	b	52	32	0
Walgett..	..	..	..	.
Bourke ..	b	64	41	0
Narrabri..	u	55	32	0
Armidale.	b	55	25	0
Gunnedah	u	85	63	0
Coonab'an	c	57	35	0
P. Macqrie	u	65	45	0
Murr'undi	u	58	38	0
Cassilis ..	b	56	52	0
Mus'brook	u	60	44	0
Dubbo...	c	54	45	0
Mudgee ..	u	60	42	0
Maitland .	u	57	52	0
Newcastle	b	60	49	0
Orange ..	r	46	23	0·14
Bathurst..	u	41	34	0
MtVictoria	p	46	38	0·04
Forbes...	u	50	36	0
Bendemeer	b	50	30	0
SYDNEY	b	58	49	0
Wentw'th	q	58	38	0·07
Young...	u	50	49	0·20
Woll'gong	b	45	38	0
Moss Vale	b	60	43	0
Euston...	..	.	..	.
Goulburn.	p	46	37	0·05
Wagga...	r	52	39	0·10
Cape Geo.	b	57	..	0
Queanb'an	b	48	38	0·04
Deniliquin	u	55	37	0
Albury...	r	49	40	0·25
Bodalla ..	n	63	30	0
Cooma...	u	52	28	0
Eden.....	b	59	41	0
Gabo Isld.	b	58	44	0

METEOROLOGICAL REPORTS.—JULY 10.

South Australia: Reports raining generally south of Beltana, and dull and threatening with a rising barometer elsewhere. Rain at Adelaide, 0·13; Eucla, 0·06; and Alice Springs, 0·10. Victoria: Showery generally with strong squalls of wind from S.W. and S.S.W.; rain at Melbourne, 0·24; Cape Otway, 0·14; Portland, 0·25; Wilson's Promontory, 0·07, bar. rising. New South Wales: Cloudy generally, raining out W. at Dubbo and Mudgee, and up N.W. at Inverell and Tenterfield; heavy fall of snow this morning at Armidale and Bendameer, barometer falling on coast north of Sydney and steady down south. Queensland: Fine and clear, westerly winds, bar. falling. 3 p.m. Observations.—Victoria: Melbourne, S.W., 18, showery, bar. rising, temp. 49; Portland, S.S.W., 34, cloudy, temp. 53; Cape Otway, S.S.W., 40, showery, temp. 51; Wilson's Promontory, S.W., 48, squally, light rain, rough sea, temp. 46; New South Wales: Wentworth, S.W., dull, temp. 59·; Deniliquin, S.W., cloudy, temp. 55·; Albury, S.W., cloudy, temp. 54·; Goulburn, W., fine, temp. 55·; Forbes, calm, cloudy, temp. 53·; Moruya, S.W., 42, fine, smooth sea, temp. 61·; Cape St. George, S.W., 28; Sydney, W., 14, fine, barometer 29·86, temp. 55·; Newcastle, S.W., fine, sea smooth, temp. 56·; Port Macquarie, W.S.W., fresh, fine, smooth sea, temperature 81·; Clarence River, W., 14, fine, smooth sea, temperature 60·. State of Rivers: Murrumbidgee—at Wagga, 6 feet 8 inches above summer level; at Hay, 8 feet above summer level; at Balranald, 7 feet 10 inches above summer level; Murray—at Albury, 4 feet 2 inches above summer level; at Euston, 9 feet 3 inches above summer level; Darling—at Wentworth, 12 feet 9 inches above summer level; at Pooncarie, 20 feet 1 inch above summer level; at Menindie, 24 feet above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

10 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 10 July.....29·820.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	p	52	37	0·28
Grafton..	b	67	25	0
Inverell..	p	56	41	0
Walgett..	.	..	..	.
Bourke ..	u	67	39	0·04
Narr'bri..	u	59	31	0·06
Armidale.	s	52	21	0·37
Gunnedah	c	63	38	0·20
Coonab'an	..	..	..	..
P. Macqrie	u	64	41	0
Murr'undi	c	50	46	0·33
Cassilis ..	u	57	37	0·15
Mus'brook	b	63	43	0·08
Dubbo...	r	59	42	0·20
Mudgee ..	p	60	38	0·25
Maitland .	b	58	44	0
Newcastle	u	61	45	0
Orange ..	b	43	32	0
Bathurst..	u	47	32	0·18
MtVictoria	u	43	29	0
Forbes...	u	52	37	0
Bendemeer	s	52	24	1·60
SYDNEY	b	60	45	0
Wentw'th	b	56	35	0
Young...	u	48	45	0·45
Woll'gong	b	64	44	0
Moss Vale	n	47	34	0·03
Euston...	b	54	34	0
Goulburn.	u	44	33	0·03
Wagga ..	u	58	30	0·19
Cape Geo.	b	60	..	0
Queanb'an	f	49	32	0
Deniliquin	b	49	34	0·13
Albury...	u	55	31	0·20
Bodalla ..	n	63	39	0
Cooma...	n	53	22	0
Eden....	n	57	48	0
Gabo Isld.	m	54	43	0

METEOROLOGICAL REPORTS.—JULY 11.

South Australia: Weather clearing, barometer high and rising. Rain at Adelaide, 0·05; Cape Borda, 0·05; and Eucla, 0·01. Victoria: Showery generally, wind moderate, from W. and S.W.; barometer high and rising. Rain at Melbourne, 0·20; Cape Otway, 0·15; and Portland, 0·08. New South Wales: Cloudy and dull on coast south of Cape St. George, and down S.W. at Wentworth, Wagga, and Albury; barometer rising generally, sea smooth except at Gabo Island; for rain measurements see weather map, page 6. Queensland: Fine and clear, moderate S.E. swell. 3 p.m. Observations.—Victoria: Melbourne, barometer steady, S.W., 13, cloudy; Portland, S., 18, fine, sea smooth; Cape Otway, S.W., 8, showery, sea smooth; Wilson's Promontory, W.S.W., 28, showery, moderate sea. New South Wales: Wentworth, S.W., 14, fine, temperature 60°; Deniliquin, W., dull, temperature 54°; Albury, N.W., 14, fine, temperature 54°; Goulburn, calm, fine, temperature 56°; Forbes, calm, cloudy, temperature 50°; Eden, no report; Moruya, S.S.E., 42, fine, moderate sea, temperature 57°; Cape George, S., 28, fine, little sea from S.E., temperature 55°; Sydney, S.S.W., 14, fine, moderate sea, temperature 55°; Newcastle, S.S.W., fine, moderate sea, temperature 59°; Port Macquarie, S.S.W., fine, sea moderate, temperature 57°; Clarence River, SE., 28, fine, moderate sea, temperature 62°. It will be observed that the weather map shows barometers on this coast at about 30·20, with moderate and increasing sea from S.E. Barometer is very low in New Zealand, generally the weather is unsettled. State of Rivers: Murrumbidgee—At Wagga, 7 feet 4 inches above summer level; Hay, 8 feet 6 inches above summer level; Balranald, 8 feet above summer level. Murray—At Albury, 4 feet 7 inches above summer level; Euston, 8 feet 4 inches above summer level. Darling—At Wentworth, 12 feet 8 inches above summer level; Pooncarie, 20 feet 1 inch above summer level; Menindi, 24 feet 1 inch above summer level; Wilcannia, 31 feet above summer level.

WEATHER MAP.

11 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·913

Total Rainfall from 1 Jan. to 11 July.....29·820.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	p	41·30		0·15
Grafton..	b	60·28		0
Inverell..	u	47·36		0·28
Walgett..	.	..	..	..
Bourke ..	b	59·41		0
Narrori..	u	59·30		0
Armidale.	c	50·22		0·10
Gunnedah	b	55·32		0
Coonab'an	u	48·37		0
P. Macqrie	b	50·44		0
Mar[illegible]	u	45·31		0
Cassilis ..	u	47·35		0
Mus'brook	b	55·31		0
Dubbo...	u	56·41		0
Mudgee ..	u	54·39		0·04
Maitland .	b	54·49		0
New'cast'e	b	57·41		0
Orange ..	u	44·22		0·12
Bathurst.	u	41·35		0·04
Mt Victoria.	u	39·28		0
Forbes..	u	54·32		0
Bendemeer	u	41·39		0
Sydney	b	56·43		0
Wentw'th	u	55·54		0
Young...	u	50·48		0·05
Woll'gong	b	56·44		0
Moss Vale	n	45·33		0·01
Euston...	r	59·41		0
Goulburn.	b	47·29		0
Wagga ..	u	48·39		0
Cape Geo.	b	59·..		0
Queanb'an	l	51·28		0
Deniliquin	b	53·31		0
Albury...	u	52·30		0·09
Bodalla ..	n	64·35		0
Cooma...	n	50·31		0·03
Eden....	u	58·46		0
Gabo Isld.	m	54·45		0·57

METEOROLOGICAL REPORTS.—JULY 12.

South Australia reports dull threatening weather at Adelaide, Robe, and Borda, but fine generally, with a high barometer; squally at Cape Borda, sea moderate. Victoria: Cloudy. Melbourne, calm, light rain, measure at 0.05; Cape Otway, 0.11; and Portland, 0.03. Barometer rising, sea smooth. New South Wales: Fine and frosty generally, cold and very foggy down S.W. at Goulburn, Wagga, and Queanbeyan; barometer high (see map) and still rising, no rain; rough sea at Gabo Island, smooth elsewhere. Queensland: Rockhampton, fine, barometer 30.42 rising, wind S.W., moderate S.E. swell at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, no report; Portland, N.N.W., 8, cloudy; Cape Otway, N., 13, gloomy, sea smooth. Wilson's Promontory, W., 13, cloudy, sea smooth. New South Wales: Wentworth, N., cloudy, 61°; Deniliquin, S.W., cloudy, 57°; Albury, calm, cloudy, 53°; Goulburn, calm, fine, 55°; Eden, S.W., 14, cloudy, 56°, sea from S.E. moderate; Moruya, S.E., 20 fine, 55°, moderate sea; Cape George, S.S.E., 10, fine, 53°, sea smooth; Sydney, S., 14, fine, 56°, barometer rising slowly; Newcastle, S.W., fresh, cloudy, 58°, little sea; Port Macquarie, S., 20, cloudy, 57°, sea smooth; Clarence River, S., 20, sea moderate. State of Rivers: Murrumbidgee—At Wagga, 10 feet 6 inches above summer level, and still rising; Hay, 7 feet above summer level; Balranald, 8 feet above summer level. Murray—At Albury, 5 feet above summer level; Euston, 8 feet above summer level. Darling—At Wentworth, 12 feet 10 inches above summer level; Pooncarie, 20 feet 2 inches above summer level; Menindie, 24 feet 1 inch above summer level; Wilcannia, 31 feet above summer level.

ASTRONOMICAL MEMORANDA FOR JULY 14.—Sun rises at 7.5, sets at 5.6; moon rises at 2.27 a.m., sets at 12.41 p.m.; Mercury, 8.33 a.m., 6.51 p.m.; Venus, 9.37 a.m., 8.41 p.m.; Mars, 12.25 a.m, 11.45 a.m.; Jupiter, 9.8 p.m., 9.50 a.m.; Saturn, 11.45 p.m., 11.21 a.m. Full moon, 4th; new moon, 19th.

WEATHER MAP.

12 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·013

Total Rainfall from 1 Jan. to 12 July.....29·820.

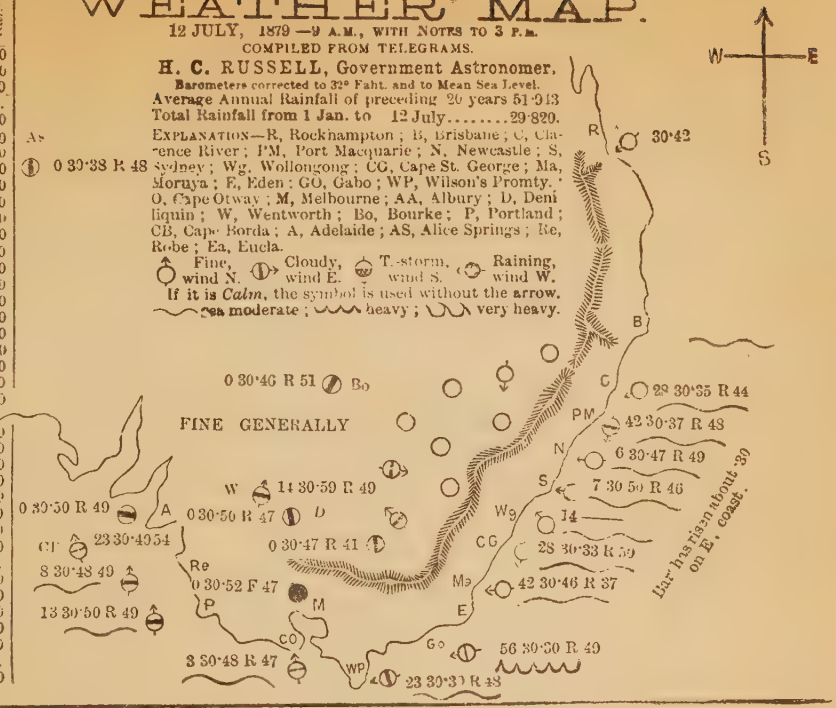
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	51	28	0
Grafton..	b	60	31	0
Inverell..	b	51	28	0
Walgett..	.	..	..	.
Bourke ..	g	65	45	0
Narra'ori..	b	54	26	0
Armidale.	b	49	19	0
Gunnedah	b	61	26	0
Coonab'an	n	51	26	0
P. Macqrie	b	61	42	0
Murr'undi	b	49	33	0
Cassilis ..	b	52	25	0
Mus'brook	b	65	32	0
Dubbo...	n	62	37	0
Mudgee ..	b	52	30	0
Maitland .	g	57	48	0
Newcastle	b	59	45	0
Orange ..	b	45	23	0
Bathurst..	n	48	26	0
MtVictoria	b	47	28	0
Forbes...	b	53	34	0
Bendemeer	b	40	19	0
SYDNEY	b	56	43	0
Wentw'th	g	58	37	0
Young...	b	50	41	0
Woll'gong	b	61	42	0
Moss Vale	n	45	29	0
Euston...	u	61	40	0
Goulburn.	f	54	28	0
Wagga ..	b	48	31	0
Cape Geo.	..	..	..	..
Queanb'an	b	51	27	0
Deniliquin	g	54	39	0
Albury...	u	49	34	0
Bodalla ..	n	62	27	0
Cooma...	n	49	23	0
Eden.....	..	..	..	..
Gabo Isld.	m	54	45	0



METEOROLOGICAL REPORTS.—JULY 14.

South Australia: Reports dull threatening weather, with a falling barometer; rain at Cape Borda, 0·10; and at Eucla, 0·48. Victoria: Cloudy and threatening, strong northerly winds, barometer falling, sea smooth, no rain. New South Wales: Fine and frosty generally; very foggy down S.W., at Goulburn, Cooma, Queanbeyan, and Bodalla, and up N. at Newcastle, Maitland, and Murrurundi; bar rising on E. coast, from Moruya northwards. Queensland: Brisbane, fine and clear, sea smooth, wind S.W.; Rockhampton, fine and clear, wind inclining to E. 3 p.m. Observations.—Victoria: Melbourne, N., 18, gloomy, barometer 30·15 falling; Portland, N., 40, dull, temperature 54°; Cape Otway, N., 56, threatening, temperature 50°; Wilson's Promontory, N.E., 18, gloomy, 51°. New South Wales: Wentworth, cloudy, N., temperature 61; Deniliquin, cloudy and dull, N.N E., 14, temperature 55°; Albury, calm, cloudy, temperature 51°; Goulburn, calm, cloudy, temperature 57°; Eden, dull, sea light, E.N.E., 14, temperature 52°; Moruya, cloudy and dull, S.E., 42, temperature 56°; Cape George, N., dull, sea smooth, temperature 58°; Sydney, cloudy, N.E., 6, smooth, temperature 57°; Newcastle, calm, fine, sea slight, temperature 57°; Port Macquarie, S.E., 28, fine, sea moderate, temperature 69°; Clarence River, S.S.E., showery, sea moderate, temperature 60°. State of Rivers: Murrumbidgee—At Hay, 6 feet above summer level; Balranald, 7 feet 10 inches above summer level. Murray—At Albury, 5 feet above summer level; Euston, 7 feet 6 inches above summer level. Darling—At Wentworth, 12 feet 5 inches above summer level; Pooncarie, 20 feet above summer level; Menindie, 24 feet 2 inches above summer level; Wilcannia, 31 feet above summer level.

WEATHER MAP.

14 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 14 July.....29·826.

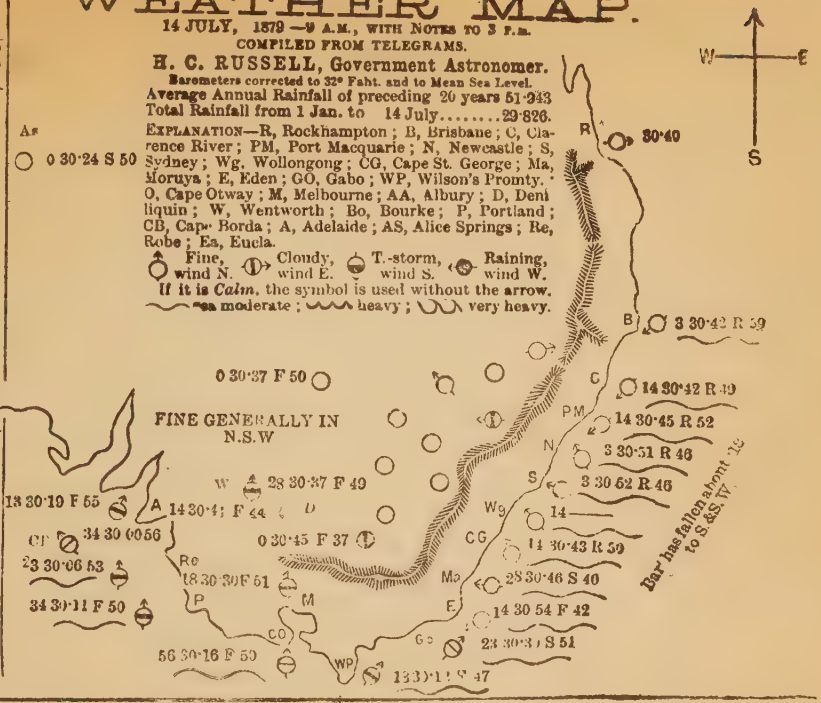
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weth'r	Max	Min	Rain
Tenterfi'ld	b	49	30	0
Grafton..	b	68	45	0
Inverell..	b	58	29	0
Walgett..	.	.	.	.
Bourke ..	b	68	37	0
Narrabri..	b	60	30	0
Armidale.	b	53	31	0
Gunnedah	b	68	31	0
Coonab'an	n	63	25	0
P. Macqrie	b	61	47	0
Murr'undi	f	56	34	0
Cassilis ..	g	57	35	0
Mus'brook	u	65	43	0
Dubbo...	c	60	42	0
Mudgee ..	g	67	39	0
Maitland .	f	52	41	0
Newcastle	f	59	43	0
Orange ..	b	49	23	0
Bathurst..	f n	56	26	0
MtVictoria	n	50	30	0
Forbes...	b	54	33	0
Bendemeer	b	55	16	0
13 30·08	55	Ea		
SYDNEY	b	58	45	0·01
Wentw'th	g	61	37	0
Young...	b	55	36	0
Woll'gong	b	63	42	0
Moss Vale	b	47	34	0
Euston...	o	71	42	0
Goulburn.	f	57	32	0
Wagga ..	b	57	23	0
Cape Geo.	b	59	..	0
Queanb'an	f n	51	29	0
Deniliquin	g	54	22	0
Albury...	g	56	28	0
Bodalla ..	f n	63	29	0
Cooma ...	f n	52	20	0
Eden.....	f	52	40	0
Gabo Isld.	m	62	48	0



METEOROLOGICAL REPORTS.—JULY 15.

South Australia: Barometers rising, weather dull and threatening; rain at Adelaide, 0·26; Cape Borda, 0·35; Robe, 0·33; and Eucla, 0·02. Victoria reports showery weather, with strong squalls of wind from W.N.W.; barometers rising, sea smooth; rain at Melbourne, 0·08; Wilson's Promontory, 0·09; Portland, 0·13; Cape Otway, 0·12. New South Wales: Cloudy generally; raining at Wentworth and Euston, and up N. at Clarence River Heads; barometer falling on E. coast, sea smooth. 3 p.m. Observations.—Victoria: Melbourne, W., 13, dull temperature 53·; Portland, W.S.W., 34, fine, sea smooth, temperature 53·; Cape Otway, W., 25, dull, sea moderate, temperature 52·; Wilson's Promontory, W., 40, squally and showery, sea moderate, temperature 21·. New South Wales: Wentworth, S.W., fine, temperature 64·; Deniliquin, W., 14, threatening, temperature 56·; Albury, W.N.W., 14, light showery, temperature 54·; Forbes, calm, cloudy, temperature 54·; Eden, W., 14, dull, light sea, temperature 56·; Moruya, cloudy, dull, N.E., 14, temperature 61·; Cape George, N., 14, cloudy, temperature 57·; Sydney, barometer unsteady, very cloudy, temperature 57.; Newcastle, N.N.W., 14, dull, sea smooth, temperature 62·; Port Macquarie, N.E., 28, hazy, sea smooth, temperature 65·; Clarence River, N.W., 14, fine, sea smooth, temperature 60·. State of Rivers: Murrumbidgee—At Hay, 5 feet 6 inches above summer level; Balranald, 8 feet 11 inches above summer level. Murray—At Albury, 4 feet 6 inches above summer level; Euston, 7 feet 5 inches above summer level. Darling—At Wentworth, 12 feet 4 inches above summer level; Pooncarie, 20 feet above summer level; Menindee, 24 feet above summer level; Wilcannia, 31 feet above summer level.

WEATHER MAP.

15 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 15 July.....29·826.

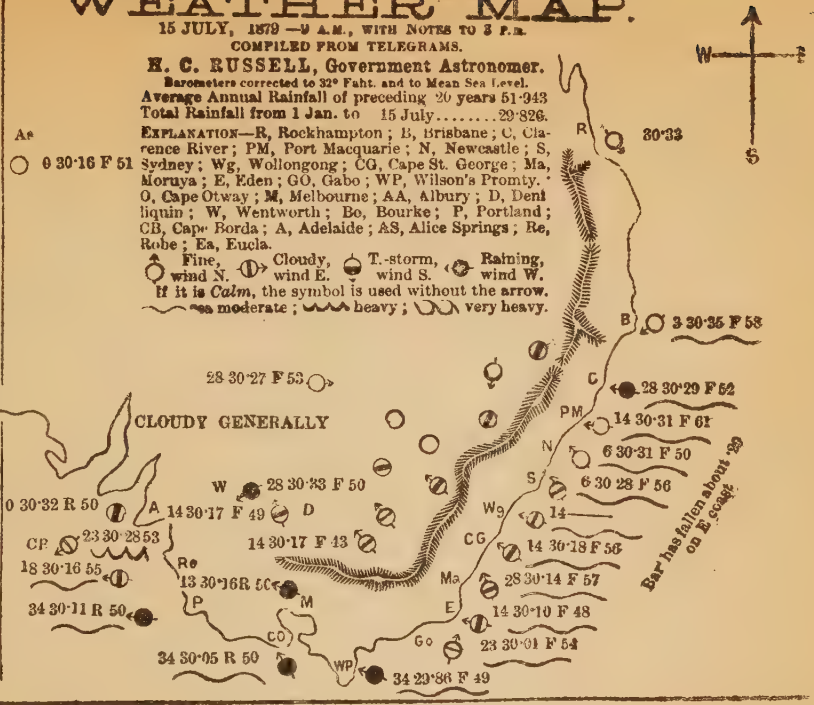
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	g	52	46	0
Grafton..	f	68	37	0
Inverell..	b	59	38	0
Walgett..	..	..	..	..
Bourke ..	b	72	48	0
Narra'ori..	..	..	..	..
Armidale.	b	53	27	0
Gunnedah	c	69	37	0
Coonab'an	c	63	35	0
P. Macqrie	b	64	50	0
Murr'undi.	o	53	35	0
Cassilis ..	g	58	38	0
Mus'brook	..	..	..	..
Dubbo...	c	59	40	0
Mudgee ..	u	65	36	0
Maitland .	b	58	49	0
Newcastle	b	61	47	0
Orange ..	b	51	29	0
Bathurst..	b	55	28	0
MtVictoria	c	53	30	0
Forbes...	b	52	37	0
Bendemeer	b	57	27	0
8 30·42	56	Ea		
SYDNEY	g	59	46	0
Wentw'th	r	61	45	0·07
Young...	g	57	41	0
Woll'gong	c	63	48	0
Moss Vale	u	52	42	0
Euston...	r	59	45	0·02
Goulburn.	b	56	32	0
Wagga ..	b	51	31	0
Cape Geo.	u	56	..	0
Queanb'an	c	47	33	0
Deniliquin	g	55	46	0
Albury...	g	51	37	0
Bodalla ..	u	87	33	0
Cooma ...	c	48	36	0
Eden.....	u	52	40	0·02
Gabo Isld.	u	56	50	0



METEOROLOGICAL REPORTS.—JULY 16.

South Australia: Adelaide, fine; Robe and Eucla, cloudy; and Cape Borda, showery; barometers rising; rain at Adelaide, 0·01; and Cape Borda, 0·19. Victoria: Weather cloudy, barometers rising, sea rather rough at Cape Otway, hoar frost at Melbourne; rain at Cape Otway, 0·09; Wilson's Promontory, 0·07; Portland, 0·04. New South Wales: Fine generally, cloudy on coast from Port Macquarie down as far as Lake George, wind moderate from S.W.; barometers rising from Sydney southwards. See weather map for rain measurements.) Queensland: Fine and clear, sea smooth; barometer rising. 3 p.m. Observations.—Victoria: Melbourne, barometer steady, N.W., 8, temperature 54°; Portland, W., 28, passing showers, temperature 56°, sea smooth; Cape Otway, N.W., 18, misty, rough sea, temperature 54°; Wilson's Promontory, W., 18, showery, temperature 46°, sea smooth. New South Wales: Wentworth, S.W., cloudy, temperature 64°; Deniliquin, W., 14, fine, temperature 57°; Goulburn, calm, fine, temperature 59°; Forbes, calm, fine, temperature 55°; Eden, S.W., 14, fine, smooth sea, temperature 55°; Moruya, E.S.E., 42, fine, smooth, temperature 58°; Cape George, S., 2, cloudy, smooth, temperature 55°; Sydney, S.S.W., 14, cloudy, smooth, temperature 56°; Newcastle, S. 28, showery, smooth, temperature 59°; Port Macquarie, S.S.W., 56, cloudy, smooth, temperature 63°; Clarence River, S., fresh, sea moderate. State of Rivers: Murrumbidgee—at Wagga, 5 feet 8 inches above summer level; at Hay, 4 feet 8 inches above summer level; at Balranald, 9 feet above summer level. Murray—At Albury, 4 feet above summer level; at Euston, 7 feet 4 inches above summer level. Darling—At Wentworth, 12 feet 3 inches above summer level; at Pooncarie, 20 feet above summer level; at Menindie, 24 feet 2 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

16 JULY, 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

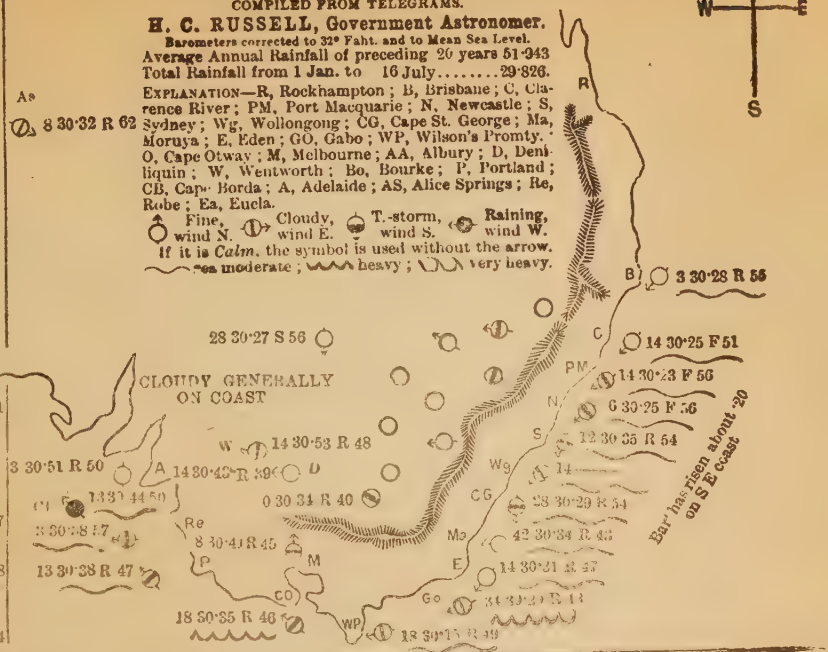
Total Rainfall from 1 Jan. to 16 July.....29·826.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	62	37	0
Grafton..	b	55	31	0
Inverell..	u	62	39	0
Walgett..	.	..	..	..
Bourke ..	b	76	36	0
Narrabri..	b	66	32	0
Armidale.	b	52	24	0
Gunnedah	u	72	39	0
Coonabarabran	c	64	38	0
P. Macqrie	u	68	53	0
Marrandi	u	58	36	0
Cassilis ..	b	63	37	0
Mus'brook	u	68	43	0
Dubbo...	b	60	43	0
Mudgee ..	u	64	45	0
Maitland .	u	61	54	0
Newcastle	u	66	54	0
Orange ..	u	55	33	0
Bathurst..	b	57	37	0
Mt Victoria	...	..	..	..
Forbes...	b	55	37	0
Condemeer	a	59	23	0
SYDNEY	a	54	46	0
Wentworth	c	63	40	0·01
Young...	b	53	36	0
Woll'gong	c	66	44	0
Moss Vale	b	55	40	0
Euston...	b	60	37	0
Goulburn.	b	59	34	0
Wagga	f	51	37	0
Cape Geo	u	55	[illegible]	0·07
Queanbean	b	54	35	0
Deniliquin	b	58	33	0
Albury ..	u	49	35	0·18
Bodalla ..	b	60	34	0
Cooma...	n	52	21	0
Eden ...	b	58	41	0
Gabo Isld.	m	57	47	0·04

METEOROLOGICAL REPORTS.—JULY 17.

South Australia reports steady barometer, weather cloudy and cool, rain at Cape Borda, 0·02. Victoria: Cloudy at Melbourne, showery at Cape Otway and Portland; no telegrams from Wilson's Promontory; barometer falling. New South Wales: Fine generally, barometer rising on coast, N. of Moruya, calm and frosty inland, sea smooth. Queensland: Rockhampton, fine, wind E., smooth sea at Cape Moreton. 3 p.m. Observations. — Victoria: Melbourne, W., 13, fine, 58·; Portland, W., 28, passing showers, temperature 51·; Cape Otway, W.N.W., 18, misty, showery, 54·; Wilson's Promontory, W. N. W., 28, showery, temperature 56·; New South Wales: Wentworth, N.W., fine, temperature 64·; Deniliquin, calm, fine, temperature 61·; Albury, calm, cloudy, temperature 51·; Goulburn, W., fine, temperature 57·; Forbes, calm, fine, temperature 56·; Eden, E.W.E, 14, fine, sea smooth, temperature 57·; Moruya, E.N.E., 28, fine, sea smooth, temperature 57·; Cape George, S., 28, fine, sea smooth, temperature 57·; Sydney, N.W., 8, fine, sea smooth, temperature 59·; Newcastle, S.E., 14, fine, sea smooth, temperature 63·; Port Macquarie, S.S.W., 28, fine. sea smooth, temperature 72·; Clarence River, S., fine, sea smooth, temperature 66·. State of Rivers: Murrumbidgee—at Wagga, 5 feet 3 inches above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 9 feet above summer level. Murray—At Albury, 3 feet 9 inches above summer level; at Euston, 7 feet above summer level. Darling — At Wentworth, 12 feet 3 inches above summer level; at Pooncarie, 20 feet 1 inch above summer level; at Menindie, 24 feet 3 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

17 JULY, 1879—9 A.M., WITH NOTES TO 3 P.M.
COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

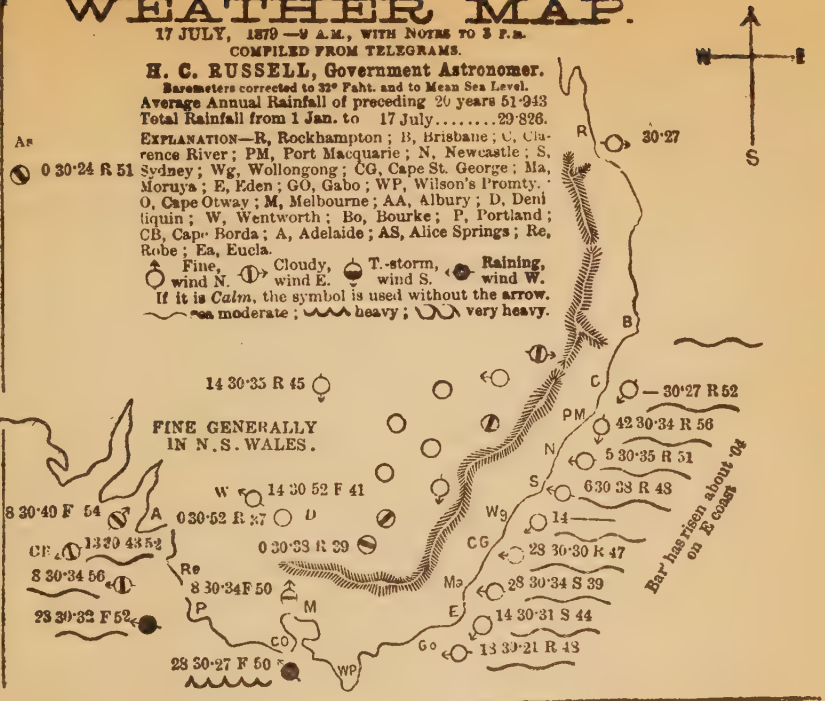
Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943
Total Rainfall from 1 Jan. to 17 July.....29·826.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	60	45	0
Grafton..	u	73	35	0
Inverell..	b	56	29	0
Walgett..	..	..	..	..
Bourke ..	n	62	36	0
Narrabri..	b	60	30	0
Armidale.	b	51	25	0
Gunnedah	b	70	23	0
Coonab'an	n	65	25	0
P. Macqrie	b	65	51	0
Murr'undi	b	57	36	0
Cassilis ..	f	63	36	0
Mus'brook	b	68	36	0
Dubbo...	b	58	40	0
Mudgee ..	f	71	37	0
Maitland .	b	61	49	0
Newcastle	b	65	47	0·04
Orange ..	n	55	22	0
Bathurst..	f	56	28	0
MtVictoria	fu	51	33	0
Forbes...	b	56	35	0
Bendemeer	..	..	..	..
SYDNEY	b	58	45	0
Wentw'th	u	61	32	0
Young...	n	56	31	0
Woll'gong	b	62	44	0
Moss Vale	fn	47	33	0
Euston...	b	67	29	0
Goulburn.	n	58	26	0
Wagga ..	f	51	30	0
Cape Geo.	b	54	..	0
Queanb'an	nf	55	29	0
Deniliquin	b	56	..	0
Albury...	f	50	32	0
Bodalla ..	n	62	26	0
Cooma...	b	54	18	0
Eden....	b	56	39	0
Gabo Isld.	b	59	44	0



METEOROLOGICAL REPORTS.—JULY 18.

South Australia: Reports cloudy weather, with steady barometer, rain at Cape Borda 0·10, and at Robe 0·11; sea smooth. Victoria: Cloudy, bar rising, showery at Portland and Cape Otway, sea smooth, wind light from N.W. and W., rain at Cape Otway 0·16, Portland 0·10, and Wilson's Promontory 0·65. New South Wales: Fine and frosty generally, bar. steady, light westerly winds, sea smooth. Queensland: Rockhamption, threatening, considerable swell at Moreton Bay Heads, 0·17 rain at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, barometer steady, S.S.W., 8, temperature 53°; Portland, S.W., 8, cloudy, sea smooth, temperature 57°; Cape Otway, S.S.W., 8, misty, moderate sea, temperature 55°; Wilson's Promontory, W.S.S., 23, showery, sea smooth, temperature 51. New South Wales: Wentworth, N.N.E., cloudy, temperature 61°; Deniliquin, W., fine, temperature 59°; Albury, calm, cloudy, temperature 55°; Goulburn, calm, fine, temperature 56°; Forbes, calm, cloudy, temperature 56°; Eden, N., 14, sea smooth, temperature 59°; Cape George, S.W., 10, fine, sea smooth, temperature 62°; Sydney, barometer steady, fine, N., 10, temperature 60°; Newcastle, calm, fine, sea smooth, temperature 58°; Port Macquarie, S.E., cloudy, sea smooth, temperature 60°; Clarence River, N.W., cloudy, moderate sea, temperature 64°. State of Rivers: Murrumbidgee—At Wagga, 5 feet 1 inch above summer level; at Hay, 7 feet above summer level; at Balranald, 8 feet 9 inches habove summer level. Murray—At Albury, 3 feet inches above summer level; at Euston, 7 feet above summer level. Darling—At Wentworth, 13 feet 1 inch above summer level; at Pooncarie, 20 feet above summer level; at Menindee 24 feet 3 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

18 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·343

Total Rainfall from 1 Jan. to 18 July.....29·829.

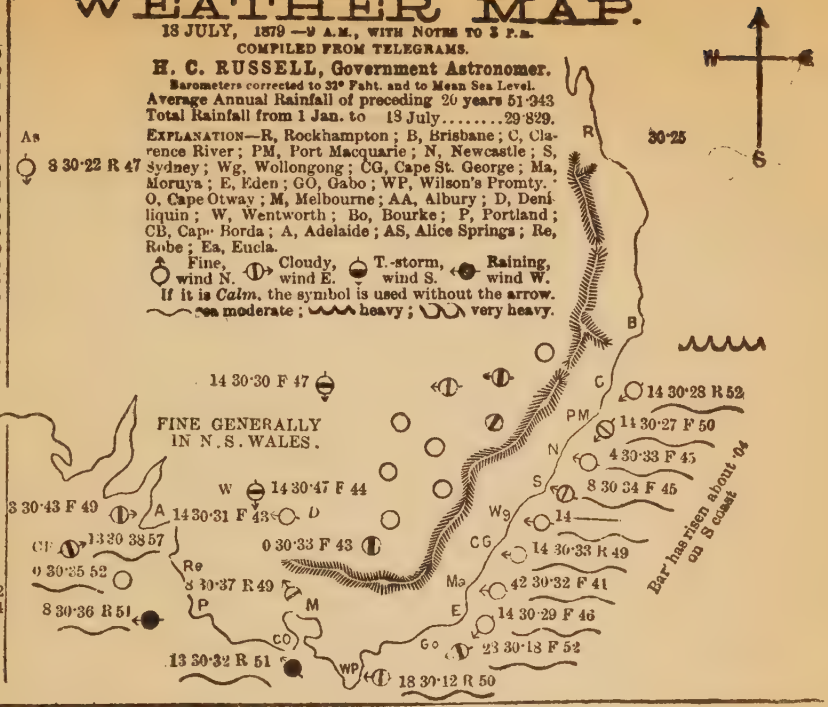
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weh'r	Max	Min	Rain
Tenterfi'ld	b	53	40	0
Grafton..	g	71	33	0
Inverell..	g	54	33	0
Walgett..	.	..	..	..
Bourke ..	c	67	44	0
Narra'ri..	u	61	26	0
Armidale.	g	50	25	0
Gunnedah	g	71	30	0
Coonab'an	n	66	37	0
P. Macqrie	g	65	44	0
Murr'undi	u	55	33	0
Cassilis ..	b	60	29	0
Mus'brook	b	62	31	0
Dubbo...	b	62	38	0
Mudgee ..	c	65	36	0
Maitland .	g	61	49	0
Newcastle	b	63	41	0
Orange ..	n	48	28	0
Bathurst.	n	48	26	0
MtVictoria	n	48	29	0
Forbes...	b	57	35	0
Bendemeer	b	58	20	0
Sydney	c	59	42	0
Wentw'th	b	45	37	0
Young...	b	55	33	0
Woll'gong	b	59	41	0
Moss Vale	n	50	31	0
Euston...	u	71	28	0
Goulburn.	n	51	27	0
Wagga ..	b	51	32	0
Cape Geo.	b	56	..	0
Queanb'an	b	50	27	0
Deniliquin	g	58	30	0·02
Albury...	u	51	33	0·04
Bodalla ..	n	63	29	0
Cooma...	n	51	20	0
Eden.....	b	56	42	0
Gabo Isld	c	60	48	0



METEOROLOGICAL REPORTS.—JULY 19.

South Australia: Fine and clear, barometer rising, sea smooth, no rain. Victoria: Fine generally, showery at Cape Otway, rain 0·02; Wilson's Promontory reports rough sea, rain 0·32, barometer rising. New South Wales: Cloudy generally, barometer rising on coast, raining at Tenterfield and Clarence River Heads, heavy E. sea at Eden. Queensland: Rockhampton, raining lightly, wind inclining to E; sea moderate at Cape Moreton. 3 p.m. Observations.—Victoria: Cloudy generally; Portland, E., 13, cloudy, smooth sea, temperature 57; Cape Otway, S.E., 8, cloudy, sea smooth; Wilson's Promontory, S.E., 13, cloudy, showery, sea smooth, temperature 53°. New South Wales: Deniliquin: W., 14, fine, temperature 57°; Albury, calm, fine, temperature 55°; Goulburn, calm, cloudy, temperature 57°; Forbes, calm, cloudy, temperature 52°; Eden, E., 14, fine, light easterly sea, temperature 57°; Moruya, S.E., 20, cloudy, sea smooth, temperature 57°; Cape George, S., 20, passing showers, sea smooth, temperature 55°; Sydney, barometer steady, cloudy, sea smooth, temperature 56°; Newcastle, S.S.W., 20, cloudy, sea smooth, temperature 59°; Port Macquarie, S., 14, cloudy, sea moderate, temperature 51°; Clarence River, S.W., 14, sea moderate, temperature 60°. State of Rivers: Murrumbidgee—At Hay, 8 feet above summer level; at Balranald, 8 feet 6 inches above summer level. Murray—At Euston, 7 feet above summer level. Darling—At Wentworth, 12 feet 2 inch above summer level; at Pooncarie, 20 feet 1 inch above summer level; at Menindie, 24 feet 3 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

19 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 19 July.....29·830.

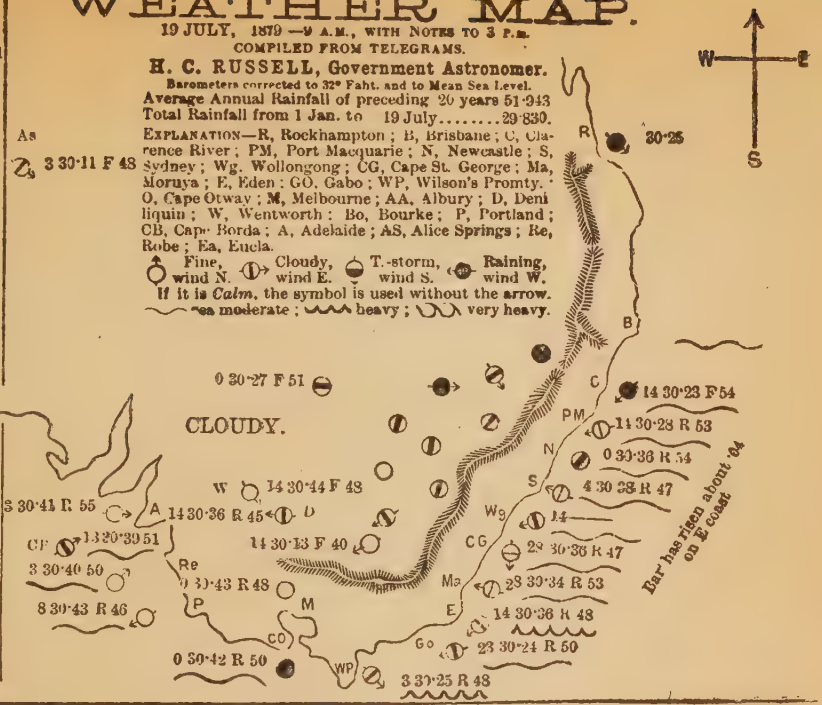
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg. Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	r	56	47	0·11
Grafton..	u	64	38	0
Inverell..	g	54	32	0
Walgett..	.	.	..	.
Bourke ..	g	61	46	0
Narra'ri..	r	57	41	0
Armidale.	g	54	30	0
Gunnedah	u	58	39	0
Coonab'an	r	62	36	0
P. Macqrie	u	63	56	0
Murr'undi	u	55	34	0
Cassilis ..	u	57	33	0
Mus'brook	b	61	45	0
Dubbo...	c	55	42	0
Mudgee ..	u	61	38	0
Maitland .	g	55	47	0
Newcastle	g	62	47	0
Orange ..	g	53	39	0
Bathurst..	u	54	29	0
MtVictoria	fg	52	38	0
Forbes...	g	56	36	0
Bendemeer	b	55	27	0
SYDNEY	c	59	42	0
Wentw'th	b	62	40	0
Young...	b	54	38	0
Woll'gong	c	59	44	0
Moss Vale	c	49	35	0
Euston...	b	69	32	0
Goulburn.	f	58	35	0
Wagga ..	b	62	37	0
Cape Geo.	u	60	..	0
Queanb'an	u	54	32	0
Deniliquin	c	55	34	0
Albury...	b	59	32	0
Bodalla ..	u	67	37	0·05
Cooma...	c	57	31	0
Eden....	b	58	43	0
Gabo Isld.	g	58	47	0



METEOROLOGICAL REPORTS.—JULY 21.

South Australia: Cloudy generally, barometer rising, sea smooth, rain at Cape Borda 0·03. Victoria: Cloudy generally, barometer falling, showery at Wilson's Promontory; rain at Cape Otway, 0·35; Portland, 0·05; Wilson's Promontory, 0·10. New South Wales: Fine generally; cloudy inland to the west at Bathurst, Mount Victoria, and Orange, and up N.W. at Mudgee, Dubbo, and Murrurundi; barometer falling on coast; sea rather rough at Gabo Island, but smooth elsewhere; for rain measurements see Map. Queensland: Brisbane, S.W., fine, sea moderate; Rockhampton, wind inclining to N.W. 3 p.m. Observations.—Victoria: Melbourne, S.W., 13, gloomy, temperature 52.; Cape Otway, S.W., 23, showery, sea moderate, barometer 30·20, temperature 50·; Portland, S.S.W., 34, showery, sea slight, temperature 53·; Wilson's Promontory, W., 34, showery, sea moderate, temperature 50. New South Wales: Wentworth, S.W., dull, temperature 53·; Albury, W., fine and clear, temperature 54·; Forbes, N.W., cloudy, temperature 53·; Deniliquin, S.W., 14, fine, temperature 55·; Goulburn, S·, fine, temperature 58·; Eden, S.W., 28, fine, sea light E., temperature 54·; Moruya, S.E., 42, fine, sea smooth, temperature 55·; Cape George, S., 42, fine, sea rising, temperature 53·; Sydney, S.S.W., 14, fine, sea smooth, temperature 54·; Newcastle, S.S.W., cloudy, sea rising, temperature 56·; Port Macquarie, S.S.W., 42, dull, sea smooth, temperature 61·; Clarence River, S.E., 28, fine, sea smooth, temperature 64·. State of Rivers: Murrumbidgee—At Wagga, 5 feet above summer level; at Hay, 11 feet above summer level; at Balranald, 8 feet 9 inches above summer level. Murray—At Albury, 3 feet 8 inches above summer level; at Euston, 7 feet above summer level. Darling—At Wentworth, 12 feet 3 inches above summer level; at Pooncarie, 20 feet 2 inches above summer level; at Menindie, 24 feet 4 inches above summer level; at Wilcannia, 30 feet 10 inches above summer level.

WEATHER MAP.

21 JULY, 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

Total Rainfall from 1 Jan. to 21 July.....29·880.

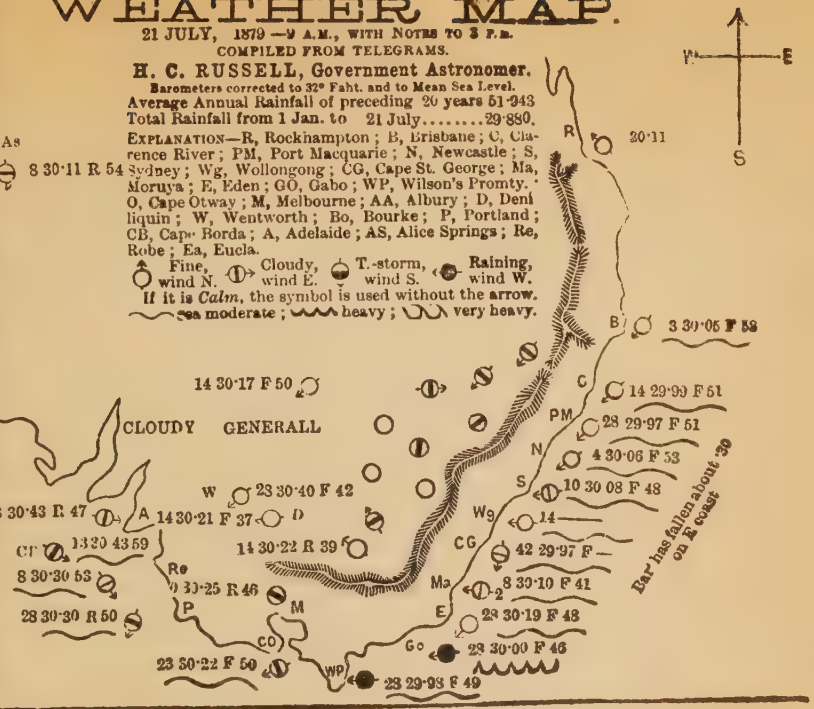
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	u	52	45	0·92
Grafton..	b	59	35	0
Inverell..	u	60	47	0·23
Walgett..	..	..	..	..
Bourke ..	b	65	37	0
Narra'ori..	u	59	41	0·10
Armidale .	r	52	32	0·07
Gunnedah	..	..	..	..
Coonab'an	b	63	33	0·10
P. Macqrie	b	54	34	0
Murr'undi	u	54	34	0·40
Cassilis ..	u	54	37	0
Mus'brook	u	61	45	0
Dubbo...	u	58	41	0·16
Mudgee ..	u	61	40	0
Maitland .	b	60	54	0
Newcastle	b	56	48	0
Orange ..	u	59	28	0·03
Bathurst..	u	52	37	0·04
MtVictoria	u	50	33	0·14
Forbes...	b	54	37	0
Sendemeer	b	54	32	0·37
SYDNEY	c	57	46	0·05
Wentw'th	b	60	34	0
Young...	b	57	38	0·04
Woll'gong	b	58	45	0·10
Moss Vale	..	..	..	..
Euston...	b	71	32	0
Goulburn.	b	52	37	0·06
Wagga...	b	65	33	0
Cape Geo.	c	55	..	0
Queanb'an	b	57	31	0
Deniliquin	b	59	30	0
Albury...	b	61	29	0
Bodalla ..	u	64	34	0
Cooma...	c	52	30	0
Eden.....	b	56	45	0
Gabo Isld.	p	54	44	0·32



METEOROLOGICAL REPORTS.—JULY 22.

South Australia: Reports cloudy weather generally, heavy rains in centre of continent, bar rising, rain at Robe 0·03, and Cape Borda 0·01, sea smooth. Victoria: Cloudy generally, light misty rain at Melbourne, sea rather rough at Cape Otway, rain at Melbourne measured 0·08, Portland 0·05, Wilson's Promontory 0·07, and Cape Otway 0·05. New South Wales: Fine and frosty generally, squally and showery with rough sea at Gabo Island, bar rising on coast. Queensland: Fine and clear, bar rising, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, gloomy, barometer, 30·33, temperature 49·; Portland, S.S.W., 18, light rain, sea moderate, barometer 30·36, temperature 51.; Cape Otway, W., 13, gloomy, rather rough, barometer 30·36, temperature 48·; Wilson's Promontory, W., 23, cloudy, light, barometer 30·11, temperature 49·. New South Wales: Wentworth, S.E., cloudy, temperature 60·; Deniliquin, S., 14, cloudy, temperature 54·; Albury, calm, fine, temperature 53·; Goulburn, calm, fine, temperature 57·; Eden, S.W., 14, fine, light easterly sea, temperature 55·; Moruya, S.E., 42, fine, sea smooth, temperature 54·; Cape George, S., 42, fine, sea smooth, temperature 55·; Sydney, S., 14, bar. 30·24, fine, temperature 55·; Newcastle, S.S.W., fresh, fine, light sea, temperature 58·; Port Macquarie, S.W., 56, fine, sea moderate, temperature 58·; Clarence River, S., 42, temperature 62·. State of Rivers: Murrumbidgee—At Wagga, 5 feet above summer level. Murray—At Albury, 3 feet 4 inches above summer level. Darling—At Wentworth, 12 feet 3 inches above summer level; at Pooncarie, 20 feet 2 inches above summer level; at Menindi, 24 feet 4 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

22 JULY, 1879 — 9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 22 July.....29·880.

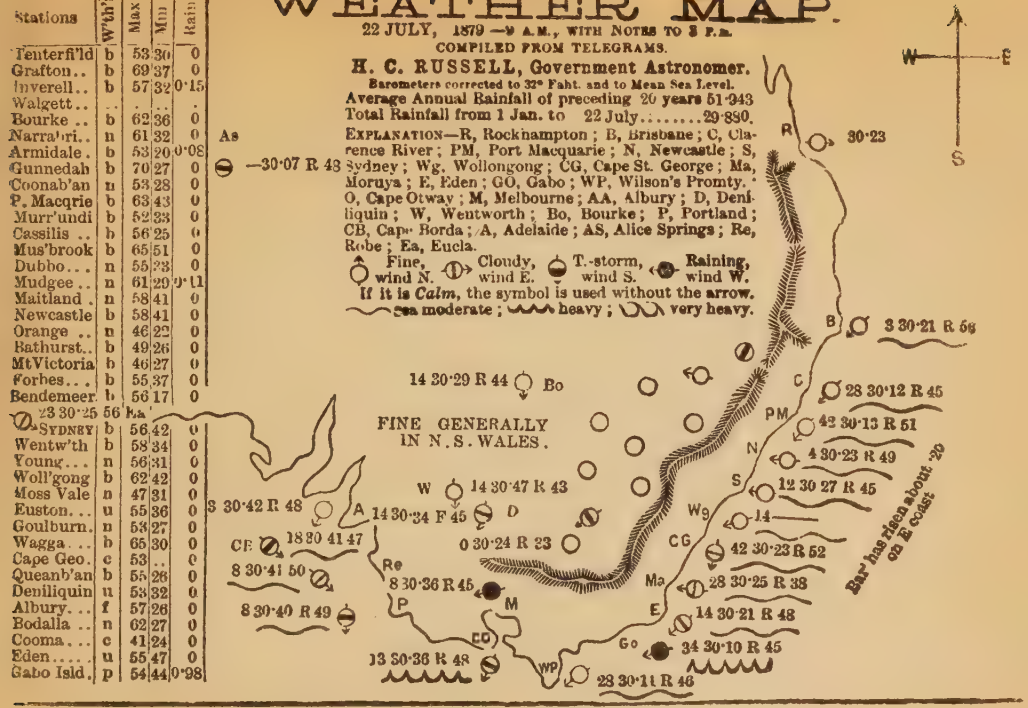
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	53	30	0
Grafton..	b	69	37	0
Inverell..	b	57	32	0·15
Walgett...	..	..	..	.
Bourke ..	b	62	36	0
Narra'ri..	n	61	32	0
Armidale.	b	53	20	0·08
Gunnedah	b	70	27	0
Coonab'an	n	53	28	0
P. Macqrie	b	63	43	0
Murr'undi	b	52	33	0
Cassilis ..	b	56	25	0
Mus'brook	b	65	51	0
Dubbo...	n	55	23	0
Mudgee ..	n	61	29	0·11
Maitland .	n	58	41	0
Newcastle	b	58	41	0
Orange ..	n	46	22	0
Bathurst..	b	49	26	0
MtVictoria	b	46	27	0
Forbes...	b	55	37	0
Bendemeer	b	56	17	0
SYDNEY	b	56	42	0
Wentw'th	b	58	34	0
Young...	n	56	31	0
Woll'gong	b	62	42	0
Moss Vale	n	47	31	0
Euston...	u	55	36	0
Goulburn.	n	53	27	0
Wagga...	b	65	30	0
Cape Geo.	c	53	..	0
Queanb'an	b	55	28	0
Deniliquin	u	53	32	0
Albury...	f	57	26	0
Bodalla ..	n	62	27	0
Cooma...	c	41	24	0
Eden.....	u	55	47	0
Gabo Isld.	p	54	44	0·98



METEOROLOGICAL REPORTS.—JULY 23.

South Australia reports: Barometer falling, weather cold and threatening, sea smooth; rain, 0·04 at Cape Borda; very heavy rain in Central Australia, at Alice Springs 2·17 measured. Victoria: Cloudy, wind W.N.W., light, bar falling, showery at Portland and Cape Otway, rain at Melbourne 0·02, Portland 0·01, Wilson's Promontory 0·02, and Cape Otway 0·16. New South Wales: Fine and frosty, barometer on coast rising N., and falling S. of Sydney, sea light down S. and moderate up N., at Newcastle, Port Macquarie, and Grafton no rain. Queensland: Brisbane, fine, bar rising, sea moderate; Rockhampton, fine, wind inclining to E. 3 p.m. Observations—Victoria: Melbourne, W., 8, cloudy, temperature 51·; Portland, S.S.W., 18, dull, light sea, temperature 51·; Cape Otway, S.W., 13, misty, rather rough, temperature 57·; Wilson's Promontory, W., 28, cloudy, moderate sea, temperature 52·. New South Wales: Wentworth, S.E., dull, temperature 53·; Deniliquin, S., 14, dull, temperature 54·; Albury, W.N.W, light, cloudy, temperature 51·; Goulburn, W., fine, temperature 56·; Eden, N.E., 14, fine, smooth sea, temperature 53·; Moruya, S.E., 42, fine, smooth sea, temperature 53·; Cape George, N.W., 28, fine, smooth sea, temperature 56·; Sydney, N.N.W., 8, cloudy, smooth sea, temperature 56·; Newcastle, N., fine, little sea, temperature 58·; Port Macquarie, N.E., 14, fine, smooth sea, temperature 60·; Clarence River, S.W., 14, dull, smooth sea, temperature 59. State of Rivers: Murrumbidgee—At Wagga, 4 feet 9 inches above summer level; at Hay, 12 feet above summer level; at Balranald, 9 feet 10 inches above summer level. Murray—At Albury, 3 feet above summer level; Euston, 7 feet above summer level. Darling—At Wentworth, 12 feet 3 inches above summer level; at Pooncarie, 20 feet 2 inches above summer level; at Menindie, 24 feet 5 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

23 JULY, 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 23 July.....29·880.

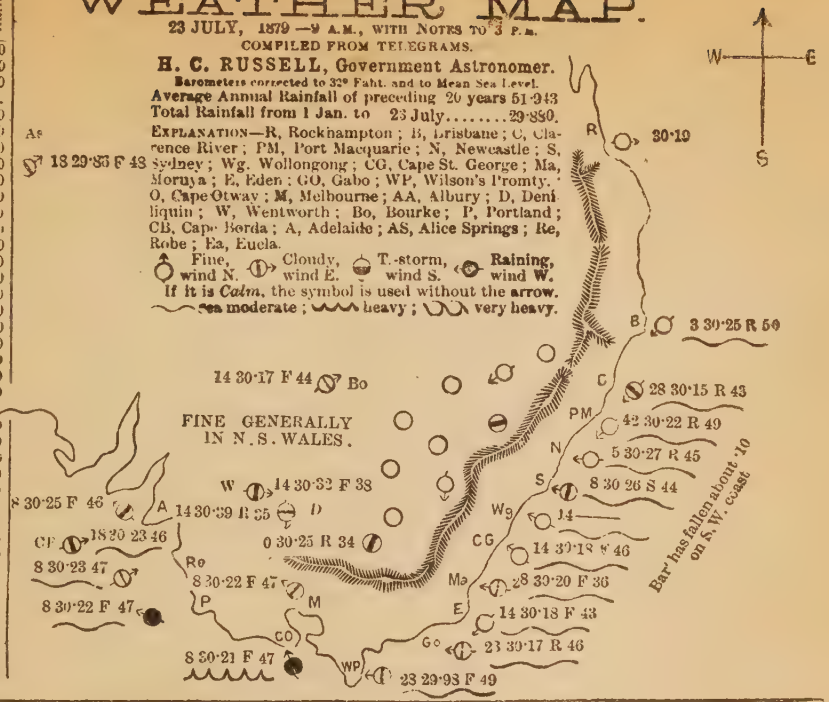
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg. Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. **Raining, wind W.**

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	51	31	0
Grafton	b	67	24	0
Inverell..	b	54	31	0
Walgett..	..	..	..	..
Bourke ..	c	66	43	0
Narrabri..	b	56	29	0
Armidale.	b	55	17	0
Gunnedah	b	66	26	0
Coonab'an	n	61	21	0
P. Macqrie	b	61	44	0
Murr'undi	n	48	24	0
Cassilis ..	b	58	26	0
Mus'brook	b	59	37	0
Dubbo...	n	53	23	0
Mudgee ..	fu	64	33	0
Maitland .	n	56	42	0
Newcastle	b	59	40	0
Orange ..	n	44	21	0
Bathurst..	b	54	25	0
MtVictoria	n	47	27	0
Forbes...	b	57	36	0
Bendemeer	b	44	30	0
3 30·05 47 Ea				
SYDNEY	c	56	42	0
Wentw'th	u	57	34	0
Young...	n	53	32	0
Woll'gong	b	59	42	0
Moss Vale	n	53	47	0
Euston...	u	62	30	0
Goulburn.	n	56	24	0
Wagga ..	u	64	30	0
Cape Geo.	b	51	..	0
Queanb'an	b	52	27	0
Deniliquin	u	53	38	0
Albury...	f	57	26	0
Bodalla ..	n	64	25	0
Cooma...	u	52	16	0
Eden.....	b	56	38	0
Gabo Isld.	c	54	43	0



METEOROLOGICAL REPORTS.—JULY 24.

South Australia reports heavy snow storms 100 miles N. of Adelaide and heavy rains over the continent N. of Mount Lofty Range and up as far as Daly Waters; rain at Adelaide, 0·02, and Eucla, 0·08; bar steady, sea smooth. Victoria reports rainy weather and falling barometers; rain at Portland, measured 0·02; Wilson's Promontory, 0·08; and Cape Otway, 0·15; sea rather rough at Cape Otway and smooth elsewhere. New South Wales: Raining at nearly every station, for measurement see weather map; sea smooth, barometer falling, calm generally inland, and light N.W. and W. winds on coast. Queensland: Fine at Rockhampton, wind inclining to E., moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, S., 13, cold, temperature 49·; Portland, E., 3, overcast, sea smooth, temperature 51·; Cape Otway, S.E., 28, misty, sea high, temperature 50·; Wilson's Promontory, S.E., 34, showery, sea rough, temperature 53·; New South Wales: Deniliquin, S.E., 14, raining, temperature 53·; Albury, S., light, showery, temperature 52·; Goulburn, calm, showery, temperature 57·; Forbes, calm, raining, temperature 51·; Eden, S.W., 14, raining, sea smooth, temperature 49·; Clarence Heads, S.W., 14, sea smooth, temperature 58·; Cape George, S.W., 14, light rain, sea smooth, temperature 50·; Sydney, W.N.W., 14, dull, temperature 50·; Newcastle, S.E., very light, dull, sea smooth, temperature 56·; Port Macquarie, N., 42, cold, sea moderate, temperature 60·; Moruya, S.S.E., 28, showery, sea smooth, temperature 48· State of Rivers: Murrumbidgee—At Wagga, 4 feet 9 inches above summer level; at Hay, 11 feet above summer level; at Balranald, 10 feet above summer level. Murray—At Albury, 3 feet above summer level; Euston, 7 feet above summer level. Darling—At Wentworth, 12 feet 3 inches above summer level; at Pooncarie, 20 feet 2 inches above summer level; at Menindie, 24 feet 5 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

24 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·043

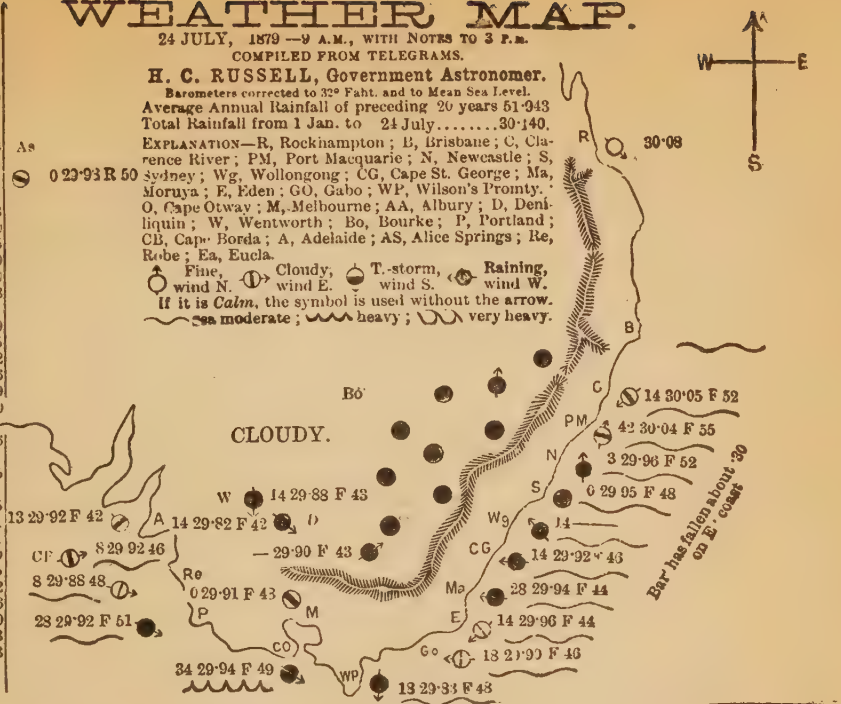
Total Rainfall from 1 Jan. to 24 July.....30·140.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.



Stations	Weat.	Max	Min	Rain
Tenterfi'ld	r	55	44	0·07
Grafton..	u	64	51	0·30
Inverell..	r	57	39	0·10
Walgett..	.	.	..	.
Bourke ..	..	..	..	
Narrabri..	r	56	36	0·46
Armidale.	u	55	18	0·14
Gunnedah	r	66	44	0·47
Coonab'an	r	59	32	0·64
P. Macqrie	u	62	51	0·03
Murr'undi	r	54	32	0·30
Cassilis ..	u	58	35	0·35
Mus'brook	r	61	34	0·30
Dubbo...	r	63	26	0·50
Mudgee ..	p	58	39	0·43
Maitland .	r	56	47	9
Newcastle	r	62	44	0·09
Orange ..	r	48	32	0·75
Bathurst..	r	49	27	0·42
MtVictoria	r	49	30	0·16
Forbes...	r	56	35	0·49
Bendemeer	r	51	24	0·20
[illegible]	25	[illegible]		
SYDNEY	r	58	44	0·26
Wentw'th	r	48	35	0
Young...	r	54	36	0·65
Woll'gong	r	57	46	0
Moss Vale	u	51	33	0·15
Euston...	r	59	34	0·41
Goulburn.	r	52	37	0·21
Wagga ..	r	58	35	0·40
Cape Geo.	r	57	..	0·05
Queanb'an	p	50	30	0·12
Deniliquin	r	49	31	0·36
Albury...	r	53	33	0·10
Bodalla ..	r	60	41	0·03
Cooma...	r	51	35	0·03
Eden....	u	56	43	0
Gabo Isld.	u	56	44	0

METEOROLOGICAL REPORTS.—JULY 25.

Victoria: Cloudy, generally squally and showery, with a rough sea at Portland, sea high at Cape Otway, bar rising, rain at Cape Otway 0·05, Portland 0·28, Wilson's Promontory 0·04. New South Wales: Cloudy generally, weather clearing up. N. and N.W., still raining and threatening down south, sea rough at Gabo Island; barometer steady; for rain measurements see weather map. Queensland: Brisbane, showery, bar rising, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, barometer rising slowly, S.E., 13, misty; Portland, S.E., 34, showery, moderate sea; Cape Otway, S.E., 23, misty, high sea; Wilson's Promontory, E S.E., 23, cloudy, sea moderate. New South Wales: Wentworth, showery, temperature 57·; Albury, calm, dull, temperature 55·; Goulburn, calm, fine, temperature 52·; Forbes, calm, dull, temperature 53·; Eden, S., 14, raining, light sea, temperature 52·; Moruya, S.E., 28, dull, sea moderate, temperature 56·; Cape George, S., 28, cloudy, sea smooth, temperature 56·; Sydney, N.W., 10,, cloudy, bar. 29·88, temperature 58·; Newcastle, N.W., fine, little sea, temperature 64·; Port Macquarie, calm, dull, sea moderate, temperature 61·; Clarence River, dull, raining, sea smooth, temperature 60·. State of Rivers: Murrumbidgee—At Wagga, 4 feet 8 inches above summer level; at Hay, 10 feet above summer level; at Balranald, 10 feet 3 inches above summer level; Murray—At Albury, 3 feet 1 inch above summer level; at Euston, 7 feet above summer level. Darling—At Wentworth, 12 feet 4 inches above summer level; at Pooncarie, 21 feet above summer level; at Menindie, 24 feet 6 inches above summer level; at Wilcannia, 31 feet 2 inches above summer level.

WEATHER MAP.

25 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.
COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

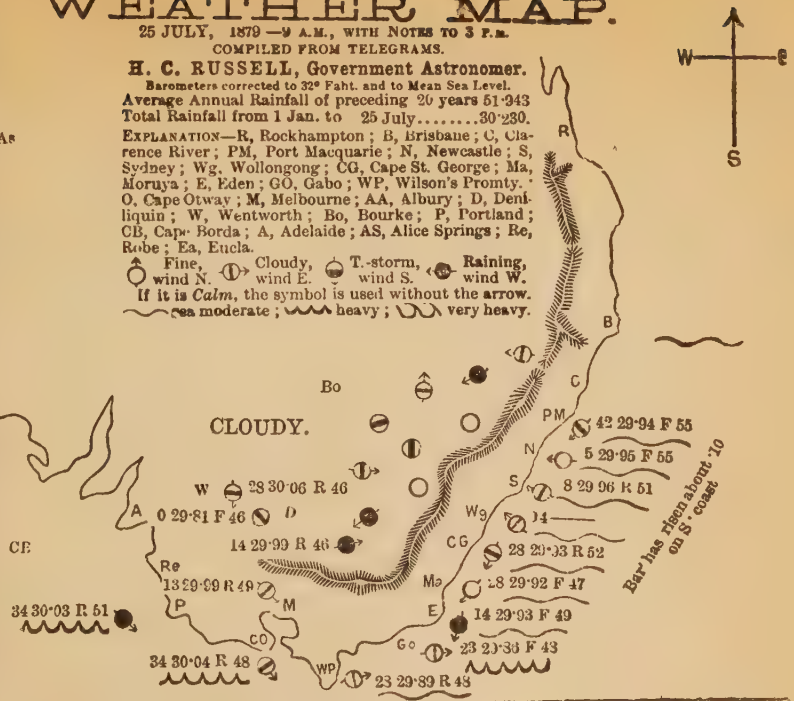
Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943
Total Rainfall from 1 Jan. to 25 July.....30·230.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	53	39	0·80
Grafton..	u	51	41	0·09
Inverell..	u	56	50	0·84
Walgett..	..	..	..	..
Bourke ..	..	..	..	..
Narra'ri..	u	57	36	0·40
Armidale.	p	56	30	0·25
Gunnedah	u	62	46	0·39
Coonab'an	c	56	37	0·37
P. Macqrie	u	60	54	0
Murr'undi	u	56	32	0·57
Cassilis ..	f	58	30	0·15
Mus'brook	b	70	45	0·36
Dubbo...	c	61	46	0·09
Mudgee ..	b	54	44	0·47
Maitland .	b	58	53	0·12
Newcastle	u	59	51	0
Orange ..	r	50	31	0·94
Bathurst..	u	52	42	0·20
MtVictoria	c	..	..	0·09
Forbes...	u	52	33	0
Bendemeer	u	54	37	0·73
	Pa			
SYDNEY	u	51	48	0·09
Wentw'th	c	48	38	0·13
Young...	u	52	43	0·50
Woll'gong	c	54	48	0·37
Moss Vale	c	49	39	0·23
Euston...	u	51	41	0
Goulburn.	u	49	38	0·40
Wagga ..	u	54	32	0·38
Cape Geo.	c	51	..	0·21
Queanb'an	b	47	39	0·60
Deniliquin	uf	58	22	0
Albury...	r	47	39	0·27
Bodalla ..	r	50	35	0·33
Cooma...	r	48	35	0·38
Eden.....	r	56	46	0·47
Gabo Isld.	u	54	46	0·08



METEOROLOGICAL REPORTS.—JULY 26.

South Australia reports cloudy weather generally, and rising barometers; light rains south of Peake; sea smooth; rain at Eucla, 0·03. Victoria: Cloudy generally; raining at Wilson's Promontory and Portland, fine at Melbourne; sea smooth; barometers rising; rain at Portland 0·03, and Wilson's Promontory 0·06. New South Wales: Cloudy, and raining generally, with variable winds and calms; barometers rising; sea smooth. (For rain measurements see weather map.) Queensland: Rockhampton, wind S.W., threatening, rain 1·62 inches. 3 p.m. Observations.—Victoria: Portland, S.E., 13, cloudy, sea smooth; Cape Otway, E., 13, cloudy, sea smooth; Wilson's Promontory, S.E., 8, cloudy, sea smooth. New South Wales: Wentworth, S.W., like rain, 60°; Albury, N.W., cloudy, 56°; Forbes, calm, cloudy, 52°; Moruya, E.S.E., 30, cloudy, sea rough; Cape George, S.E., heavy and rising sea, 57°; Sydney, barometer steady, showery; Newcastle, S.S.W., cloudy, sea smooth, 58°; Port Macquarie, S., cloudy, sea moderate; Clarence River, S., 20, sea smooth, 65°. State of Rivers: Murrumbidgee—At Wagga, 4 feet 6 inches above summer level; at Hay, 9 feet above summer level; at Balranald, 10 feet 4 inches above summer level; Murray—At Albury, 3 feet above summer level; at Euston, 7 feet above summer level. Darling—At Wentworth, 12 feet 5 inches above summer level; at Pooncarie, 21 feet 2 inches above summer level; at Menindie, 24 feet 6 inches above summer level; at Wilcannia, 31 feet 4 inches above summer level.

WEATHER MAP.

26 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 26 July.....30·231.

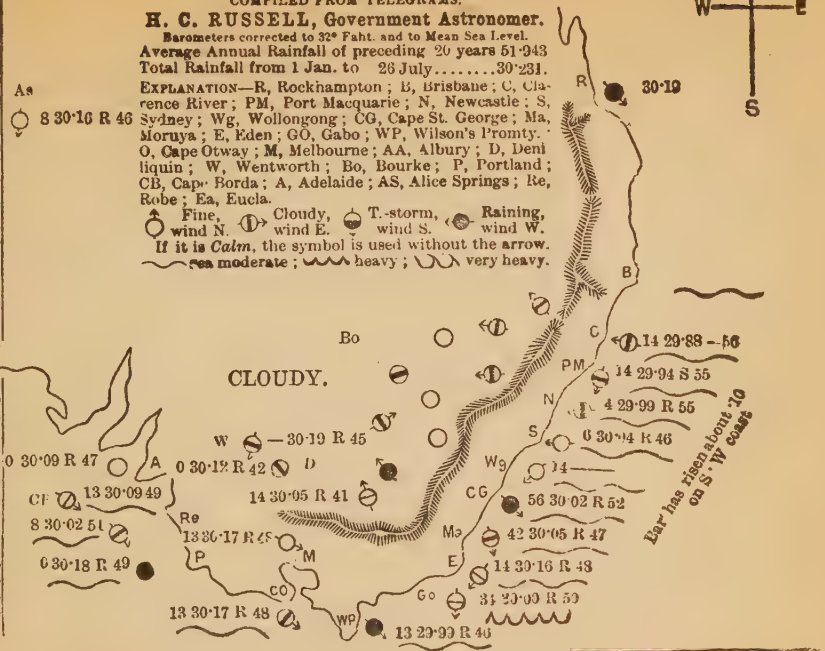
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	c	55	47	0
Grafton..	bf	61	39	0
Inverell..	c	58	49	0
Walgett..	..	.	..	..
Bourke ..	..	..	..	..
Narrabri..	c	61	44	0·70
Armidale.	p	54	30	0·10
Gunnedah	u	66	46	0·08
Coonab'an	u	60	46	0·08
P. Macqrie	g	63	52	0
Murr'undi	r	56	32	0·12
Cassilis ..	b	60	31	0·03
Mus'brook	u	58	43	0
Dubbo...	u	60	44	0
Mudgee ..	u	62	41	0
Maitland .	g	68	49	0
Newcastle	g	66	48	0
Orange .	b	52	28	0·05
Bathurst..	f	53	32	0·05
MtVictoria	n	48	30	0
Forbes...	c	57	38	0
Bendemeer	b	55	35	0·07
SYDNEY	b	60	44	0
Wentw'th	c	52	41	0·09
Young...	g	53	39	0·05
Woll'gong	b	58	43	0
Moss Vale	f	46	38	0·64
Euston...	g	52	48	0·02
Goulburn.	p	52	34	0·04
Wagga ..	p	55	44	0·08
Cape Geo.	r	66	..	0·76
Queanb'an	b	52	36	0
Deniliquin	g	52	34	0
Albury...	g	54	36	0·08
Bodalla ..	p	63	48	0·26
Cooma...	p	41	33	0·28
Eden....	u	51	45	1·34
Gabo Isld.	g	55	45	0·31



METEOROLOGICAL REPORTS.—JULY 28.

South Australia: Cloudy generally, barometer steady, sea smooth, no rain. Victoria: Cloudy generally, clouds broken; Melbourne, fine with hoar frosts, rain at Portland 0.16, barometer rising, sea smooth. New South Wales: Fine and frosty generally, sea smooth, barometer rising. Rain measurements see in weather map. Queensland: Rockhampton, fine, moderate E.S.E. swell at Cape Moreton. 3 p.m. Observations; Victoria—Melbourne, S.E., 8, fine, few clouds, barometer 30·26 falling, temperature 55·; Portland, W.N.W., 18, dull, sea smooth, temperature 54·; Cape Otway, N.W., 3, cloudy, sea smooth, temperature 53·; Wilson's Promontory, N.E., 13, cloudy, sea very smooth, temperature 52·. New South Wales: Wentworth, N.W., fine, temperature 63·; Deniliquin, S., 56, fine, temperature 55·; Albury, calm, fine, temperature 51·; Goulburn, calm, fine, temperature 56·; Eden, W.S.W., fine, light E. sea, temperature 53·; Moruya, S.E., 42, detached clouds, moderate sea, temperature 55·; Cape George, S.W., 28, fine, slight sea, temperature 54·; Sydney, S.S.W., 8, cloudy, barometer falling, temperature 55·; Newcastle, S.S.W. light, showery, little sea, temperature 56·; Port Macquarie, S.S.W., 56, fine, moderate, 60·. State of Rivers: Murrumbidgee—At Wagga, 8 feet 6 inches above summer level; at Hay, 7 feet 4 inches above summer level; at Balranald, 10 feet 6 inches above summer level. Murray—At Euston, 7 feet 6 inches above summer level. Darling—At Wentworth, 12 feet 9 inches above summer level; at Pooncarie, 20 feet 10 inches above summer level; at Menindie, 24 feet 6 inches above summer level; at Wilcannia, 31 feet 6 inches above summer level.

WEATHER MAP.

28 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 28 July.....30·435.

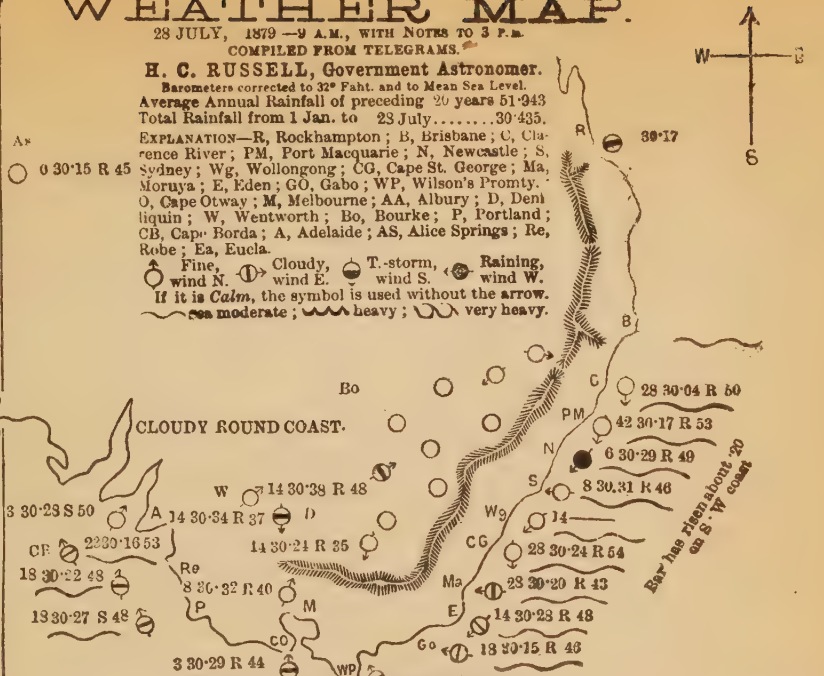
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weath	Max	Min	Rain
Tenterfi'ld	b	57	40	0·05
Grafton..	b	67	32	0
Inverell..	b	58	35	0
Walgett..	..	.	..	..
Bourke ..	..	..	..	..
Narra'ori..	b	60	49	0
Armidale.	g	55	21	0·08
Gunnedah	b	66	35	0
Coonab'an	b	62	28	0
P. Macqrie	b	62	46	0
Murr'umdi	u	55	32	0·39
Cassilis ..	f	56	28	0·53
Mus'brook	u	64	33	0·10
Dubbo...	b	60	39	0·37
Mudgee ..	n	63	35	0
Maitland .	u	59	52	0·08
Newcastle	p	61	47	0·06
Orange ..	b	52	23	0
Bathurst..	n	55	28	0·07
MtVictoria	b	47	32	0·20
Forbes...	b	56	37	0
Bendemeer	b	24	25	0·09
SYDNEY	b	56	44	0·20
Wentw'th	b	61	40	0
Young...	n	55	34	0
Woll'gong	b	66	45	0
Moss Vale	b	45	33	0·01
Euston...	p	76	34	0
Goul'burn.	g	50	33	0
Wagga ..	p	61	34	0
Cape Geo.	b	..	..	0
Queanb'an	f n	54	30	0
Deniliquin	b	55	30	0
Albury...	b f	59	28	0
Bodalla ..	n g	63	32	0
Cooma...	f n	52	25	0
Eden.....	b	54	44	0
Gabo Isld.	c	52	45	0



METEOROLOGICAL REPORTS.—JULY 29.

South Australia: Weather generally cloudy, with smooth sea, and a falling barometer; raining at Eucla, measure 0·02. Victoria: Cloudy generally, bar rising, heavy dew at Melbourne; Wilson's Promontory, no telegrams. New South Wales: Fine generally, with smooth sea, and rising barometer, westerly and S. westerly winds prevail, foggy down S.S.W. near Goulburn and Cooma, and dull and overcast at Wentworth and Euston. Queensland: Brisbane, S.W., fine, bar rising, sea moderate from E.S.E.; Rockhampton, wind inclining to S.E. 3 p.m. Observations.—Victoria: Melbourne, barometer 30·27, N.E., 13, cloudy; Portland, N., 23, cloudy, sea smooth; Cape Otway, N., 18, fine, sea smooth; Wilson's Promontory, N.N.E., 13, cloudy, sea smooth. Wentworth, N., cloudy, 64°; Deniliquin, calm, fine, 56°; Albury, calm, cloudy, 56°; Goulburn, calm, cloudy, 51°; Forbes, calm, cloudy, 60°; Eden, E.N.E., 14, fine, light, E., 53°; Moruya, N.E., 30, cloudy, sea moderate; Sydney, N.E., 14, cloudy, smooth, 57°; Newcastle, S.E., light, cloudy, smooth, 60°; Port Macquarie, S., 14, dull, smooth, 61°. State of Rivers: Murrumbidgee—At Hay, 6 feet 6 inches above summer level; at Balranald, 10 feet 6 inches above summer level. Murray—At Albury, 3 feet 11 inches above summer level; at Euston, 8 feet above summer level. Darling—At Wentworth, 12 feet 10 inches above summer level; at Pooncarie, 21 feet above summer level; at Menindie, 24 feet 7 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

29 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 29 July.....30 526.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	59	36	0
Grafton..	b	68	30	0
Inverell..	b	57	35	0
Walgett..	..	..	..	..
Bourke ..	b	67	37	0
Narra'ri..	p	60	41	0
Armidale.	g	57	27	0
Gunnedah	b	66	33	0
Coonab'an	b	60	27	0
P. Macqrie	b	63	48	0·29
Murr'umbi	b	59	32	0
Cassilis ..	g	53	34	0
Mus'brook	u	62	38	0
Dubbo...	b	58	41	0
Mudgee ..	c	59	41	0
Maitland .	b	59	48	0
Newcastle	b	59	44	0·18
Orange ..	bn	51	26	0
Bathurst..	bn	54	30	0
MtVictoria	c	48	35	0
Forbes...	b	57	36	0
Bendemeer	..	..	..	..
SYDNEY	b	56	46	0·09
Wentw'th	c	70	40	0
Young...	b	51	36	0
Woll'gong	g	61	45	0
Moss Vale	n	51	30	0
Euston...	u	69	34	0
Goulburn.	f	52	31	0
Wagga ..	b	60	33	0
Cape Geo.	b	55	..	0
Queanb'an	n	59	28	0
Deniliquin	bn	59	34	0
Albury...	bn	57	27	0
Bodalla ...	fn	63	32	0
Cooma...	fn	47	24	0
Eden....	b	54	38	0
Gabo Isld.	b	56	40	0

METEOROLOGICAL REPORTS.—JULY 30.

South Australia: Dull and threatening generally; heavy rains to W. of Adelaide, sea smooth, barometers rising; rain at Eucla, 0·67. Victoria: Cloudy, barometer steady and falling slightly, wind moderate from N. and N.E., sea smooth. New South Wales: Cloudy and dull all over the colony; raining at Maitland and Euston, barometer falling, sea smooth, wind light from W. and N.W. (For rain measurements see table attached to Weather Map.) Queensland: Brisbane, S.W., fine, sea moderate; Rockhampton, clearing to S.E. 3 p.m. Observations.—Victoria: Melbourne, N.N.E., dull, temperature 60°; Portland, S.E., 18, cloudy, sea smooth, temperature 57°; Cape Otway, E.N.E., 8, dull, sea moderate, temperature 57°; Wilson's Promontory, N.N.E., 13, fine, sea moderate, temperature 55°. New South Wales: Wentworth, N., cloudy, temperature 64°; Deniliquin, N.E., 14, dull, temperature 58°; Albury, calm, dull, temperature 55°; Goulburn, calm, dull, temperature 52°; Eden, E., 14, cloudy, sea light, temperature 55°; Moruya, E.N.E., 42, dull, sea moderate, temperature 58°; Cape George, N., 42, cloudy, sea smooth, temperature 61°; Sydney, N.N.E., 8, dull, sea smooth, temperature 60°; Newcastle, N.E., fresh, cloudy, sea smooth, temperature 61°; Port Macquarie, N.N.W., 28, dull, sea smooth, temperature 60°; Clarence River, N., 14, sea moderate, 65. State of Rivers: Murrumbidgee—At Wagga 7 feet 3 inches above summer level; at Hay, 6 feet 5 inches above summer level; at Balranald, 10 feet 7 inches above summer level. Murray—At Euston, 8 feet 4 inches above summer level. Darling—At Wentworth, 12 feet 11 inches above summer level; at Pooncarie, 21 feet above summer level; at Menindie, 24 feet 7 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

30 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·043

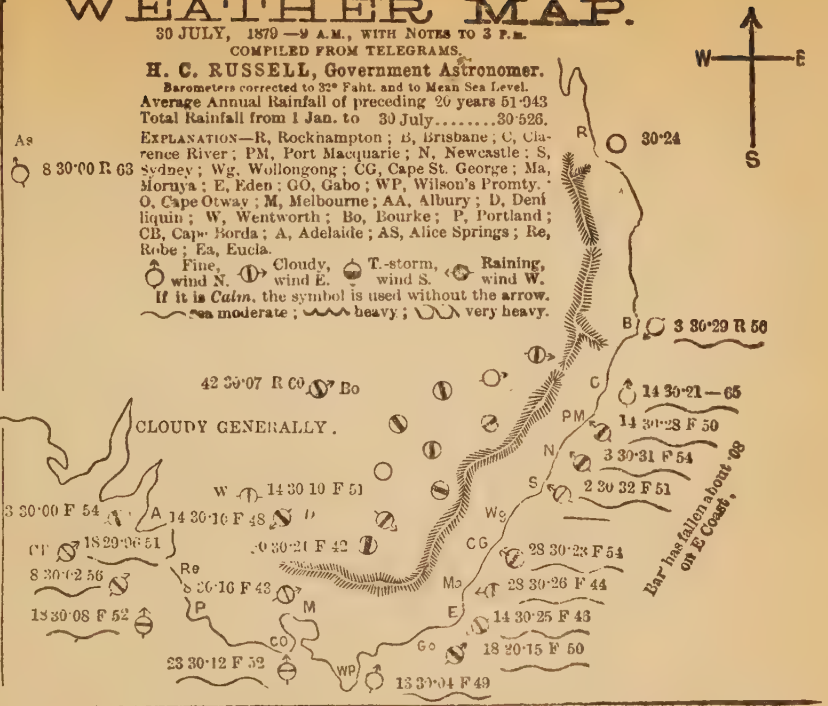
Total Rainfall from 1 Jan. to 30 July.....30·526.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	Wthr	Max	Min.	Rain
Tenterfi'ld	u	49	46	0·12
Grafton..	g	70	37	0·21
Inverell..	b	58	35	0
Walgett..	.	..	..	.
Bourke ..	c	70	51	0
Narra'ri..	c	63	41	0
Armidale.	c	56	22	0·10
Gunnedah	g	70	39	0
Coonab'an	u	62	37	0
P. Macqrie	g	64	47	0
Murr'umdi	u	57	37	0
Cassilis ..	u	63	33	0
Mus'brook	u	66	45	0
Dubbo...	p	60	44	0
Mudgee ..	u	65	48	0
Maitland .	r	60	51	0·05
Newcastle	c	62	48	0
Orange ..	g	52	31	0
Bathurst..	u	55	33	0
MtVictoria	g	50	39	0
Forbes...	g	59	41	0
Bendemeer	.	..	..	..
8 2.0·83 56 Ea				
SYDNEY	g	58	49	0
Wentw'th	g	66	43	0
Young...	b	57	41	0·04
Woll'gong	.	..	..	..
Moss Vale	c	54	35	0
Euston...	r	69	44	0
Goulburn.	g	58	32	0
Wagga ..	g	61	35	0
Cape Geo.	c	61	..	0
Queanb'an	c	55	32	0
Deniliquin	u	53	29	0
Albury...	g	59	32	0
Bodalla ..	n	64	34	0
Cooma...	n	53	25	0
Eden....	b	52	41	0
Gabo Isld.	m	59	43	0

METEOROLOGICAL REPORTS.—JULY 31.

South Australia: Reports cloudy weather generally, barometer steady, sea smooth, rain at Adelaide 0·01, and Eucla 0·10. Victoria: Cloudy generally, with light variable winds, sea smooth, bar falling, rain at Melbourne 0·27. New South Wales: Cloudy, and raining generally, see weather map for measurements of rain, northerly winds prevail on the coast, with a smooth sea and a falling barometer. Queensland: Brisbane, fine, wind E., bar falling, sea moderate; Rockhampton, wind inclining to S.E. 3 p.m. Observations.—Victoria: Melbourne, wind S.W., 8, fine, bar. 29·89, temperature 54·; Portland, S. 23, dull, sea smooth, bar. 29·93, temperature 56·; Cape Otway, W., 4, dull, sea smooth, bar. 29·81, temperature 56·; Wilson's Promontory, E., 8, cloudy, sea smooth, bar. 29·78, temperature 56·. New South Wales: Wentworth, S.S.W., gloomy, temperature 64·; Deniliquin, calm, showery, temperature 60·; Albury, N.E. light, raining, temperature 58·; Goulburn, calm, showery, temperature 60·; Forbes, calm, cloudy, temperature 57·; Eden, calm, fine, sea smooth, temperature 60·; Moruya, calm, cloudy, moderate easterly swell, temperature 58·; Cape George, N.W., 28, cloudy, sea smooth, temperature 68·; Sydney, W.N.W., 14, light rain, barometer falling and unsteady, like thunderstorm, temperature 59·; Newcastle, N.W., light, gloomy, sea smooth, temperature 60·; Port Macquarie, N.N.W., 14, dull, moderate sea, temperature 61·; Clarence River, N.E., 28, showery, moderate sea, temperature 67·. State of Rivers: Murrumbidgee—At Wagga 7 feet 2 inches above summer level. Murray—At Albury, 4 feet 9 inches above summer level. Darling—At Wentworth, 13 feet above summer level; at Pooncarie, 18 feet 8 inches above summer level; at Menindie, 24 feet 7 inches above summer level; at Wilcannia, 2 feet above summer level.

WEATHER MAP.

31 JULY, 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

Total Rainfall from 1 Jan. to 31 July.....30·599.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden: GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Teuterfi'ld	r	54	48	0·40
Grafton..	u	69	41	0·32
Inverell..	▲	62	36	0·65
Walgett..	..	..	..	.
Bourke..	..	.	..	..
Narromi..	p	48	31	0·46
Armidale.	r	60	32	0·51
Gunnedah	u	66	49	0
Coonab'an	c	60	49	1·90
P. Macqrie	r	66	54	0
Murr'undi	r	64	50	1·60
Cassilis ..	b	69	32	0·31
Mus'brook	u	63	55	0·25
Dubbo...	c	59	46	0·12
Mudgee ..	u	63	51	0·43
Maitland .	u	62	56	0 11
Newcastle	u	64	53	0·06
Orange ..	u	52	30	1·90
Bathurst..	u	55	43	0·76
MtVictoria	u	53	41	0 26
Forbes...	r	58	40	0·49
Bendemeer	..	..	.	..
Sydney	u	63	50	0·67
Wentw'th	b	67	44	6
Young...	r	54	49	0·40
Woll'gong	c	70	54	0
Moss Vale	b	53	41	0·12
Euston...	b	67	38	0
Goulburn.	r	53	41	0·40
Wagga ..	r	50	41	1·19
Cape Geo.	–	63	..	0·05
Queanb'an	r	50	39	1·32
Deniliquin	d	60	47	0·03
Albury...	u	58	39	0·93
Bodalla ..	r	64	39	0·16
Cooma...	p	52	35	0·23
Eden.....	u	55	46	0·15
Gabo Isld.	c	60	50	0·05

METEOROLOGICAL REPORTS.—August 1.

South Australia reports weather generally as cloudy and threatening; rain in the S.E. districts, sea smooth, barometer rising generally, with light variable winds; rain at Cape Borda, 0·14. Victoria: Cloudy weather, with light westerly winds and a rising barometer, sea smooth; rain at Melbourne, 0·02; Portland, 0·08. New South Wales: Cloudy generally; raining in N. and N.W. districts. (For measurement see Weather Map); bar falling generally on the coast, with variable southerly winds and a smooth sea. Queensland: Moderate S.E. sea at Cape Moreton, and foggy at Rockhampton. 3 p.m. Observations.—Victoria: Melbourne, S., 8, cloudy, 30·01, temperature 51·; Portland, W., 28, dull, sea smooth, 30·01, temperature 55·; Cape Otway, W., 12, cloudy, sea moderate, 30·09, temperature 53·; Wilson's Promontory, W.S.W., 28, cloudy, sea slight, 29·88, temperature 53·. New South Wales: Wentworth, S., cloudy, temperature 65·; Deniliquin, S.S.W., 14, fine, temperature 60·; Albury, W., light, fine, temperature 59·; Goulburn, W., fine, temperature 58·; Forbes, calm, fine, temperature 59·; Moruya, N.W., 42, fine, sea moderate, temperature 61·; Cape George, S.S.E., 28, fine, sea smooth, temperature 58·; Sydney, S., 8, barometer steady, fine, sea smooth, temperature 58·; Newcastle, S., fresh, cloudy, sea smooth, temperature 60·; Port Macquarie, S. 14, fine, sea smooth, temperature 61·; Clarence River, S., 28, sea smooth, temperature 64·. State of Rivers: Murrumbidgee—At Wagga, 10 feet 11 inches above summer level; Hay, 6 feet above summer level; Balranald, 10 feet 9 inches above summer level. Murray—At Albury, 3 feet 9 inches above summer level; Euston, 8 feet 6 inches above summer level. Darling—At Wentworth, 13 feet above summer level; Pooncarie, 20 feet 4 inches above summer level; Menindie, 24 feet 7 inches above summer level; Wilcannia, 30 feet 1 inch above summer level. Note.—The height of the Darling at Wilcannia on the 31st July (yesterday) was given as 2 feet instead of 30 feet above summer level.

WEATHER MAP.

1 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.
COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

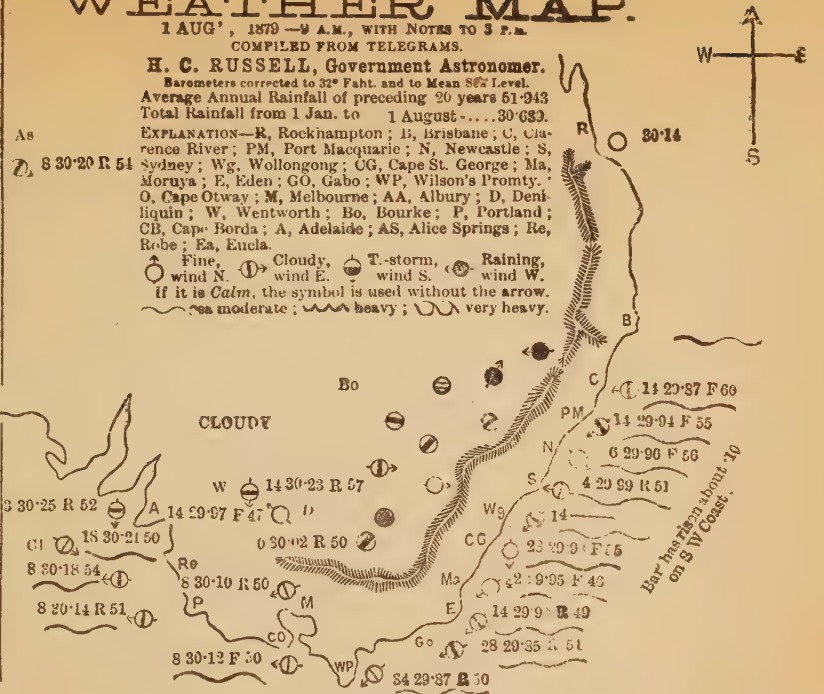
Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243
Total Rainfall from 1 Jan. to 1 August.....30·639.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	r	58	49	0·60
Grafton..	u	68	42	0
Inverell..	r	58	54	0·75
Walgett..	..	..	..	..
Bourke ..	..	.	..	..
Narrabri..	u	62	56	0·25
Armidale.	u	57	34	0·79
Gunnedah	u	63	48	0·58
Coonab'an	m	62	44	0·75
P. Macqrie	u	64	54	0·96
Murr'undi	u	73	51	1·50
Cassilis ..	u	65	33	0·90
Mus'brook	u	68	49	0·37
Dubbo...	f	61	47	0·81
Mudgee ..	f	65	46	0·30
Maitland .	b	64	56	0·[illegible]
Newcastle	b	65	51	0·59
Orange ..	cf	53	33	0·69
Bathurst..	uf	54	41	0·44
MtVictoria	u	53	38	0·15
Forbes...	f	58	41	0
Bendemeer	..	..	..	..
SYDNEY	c	63	49	0·04
Wentw'th	c	62	44	0
Young...	u	53	46	0·15
Woll'gong	c	68	47	0
Moss Vale	c	51	42	0·25
Euston...	u	75	48	0·05
Goulburn.	b	55	33	0·52
Wagga ..	f	56	44	0·11
Cape Geo.	b	61	..	0·04
Queanb'an	b	55	42	0·12
Deniliquin	b	58	43	0·27
Albury...	c	54	40	0·07
Bodalia ..	p	58	37	0·25
Cooma...	p	53	29	0·17
Eden....	u	59	46	0
Gabo Isld.	u	61	49	0



METEOROLOGICAL REPORTS.—August 2.

South Australia: Weather generally cloudy, rain in centre of continent, and also in the S. and S.E. district, barometer steady, sea smooth; rain at Cape Borda 0·39, Robe 0·50, and Alice Springs 0·65. Victoria: Cloudy generally, barometer rising very slowly, light W. and N.W. winds, sea smooth; rain at Portland 0·33, Cape Otway 0·42, Wilson's Promontory 0·16. New South Wales: Weather clearing generally, but still dull and gloomy at some of the N.W. and northern stations. Light S.W. winds prevail on the coast, and the sea is smooth and barometer rising. See map for rain measurement. Queensland: Brisbane fine and clear, with a light S.W. wind and moderate easterly sea. Rockhampton, wind inclining to S. E. 3 p.m. Observations—Victoria: Melbourne, barometer steady; Portland, W., 18, passing showers, sea smooth; Cape Otway, N.W., 18, cloudy, moderate sea; Wilson's Promontory, W.N.W., 23, cloudy, sea smooth. New South Wales: Wentworth, S.W., fine, 61·; Deniliquin, S.W., 14, cloudy, 56·; Albury, W., 10, fine, 55·; Goulburn, W., fine, 58·; Forbes, calm, cloudy, 54·; Eden, W.S.W., 14, fine, 58·, little sea from east; Moruya, N.E., 20, fine, sea smooth, 56·; Cape George, S.W., 14, fine, sea smooth, 58·; Sydney, barometer steady, 58·, E.N.E., 14, sea smooth; Newcastle, S.S.E., fine, sea smooth, 61·; Port Macquarie, S.S.E., 20, fine, 61·, sea smooth; Clarence River, S.E., 20, fine, 65·, see smooth. State of Rivers: Murrumbidgee—At Hay, 5 feet 7 inches above summer level; Balranald, 10 feet 9 inches above summer level. Murray—At Albury, 5 feet 3 inches above summer level; Euston, 8 feet 9 inches above summer level. Darling—At Wentworth, 13 feet 2 inches above summer level; Pooncarie, 20 feet 2 inches above summer level; Menindie, 24 feet 7 inches above summer level; Wilcannia, 31 feet above summer level.

WEATHER MAP.

2 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

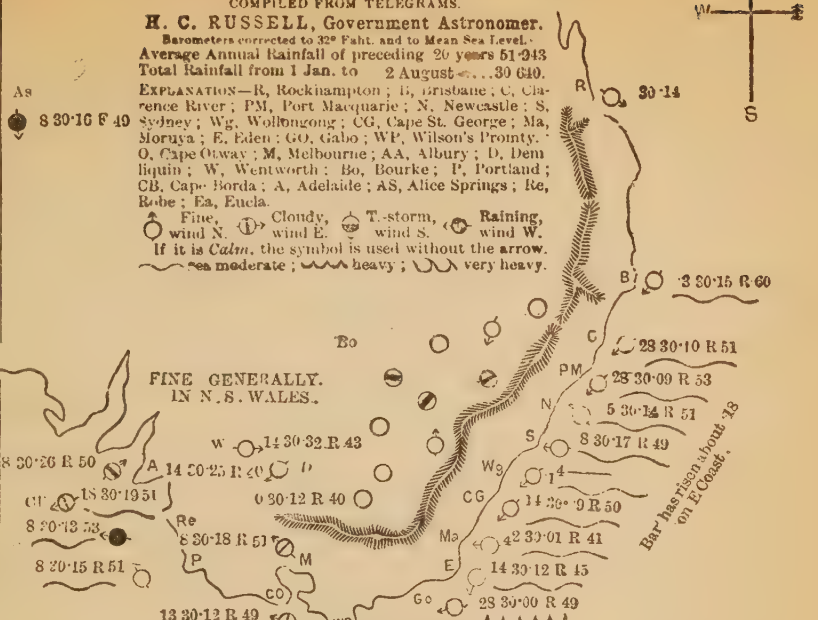
Total Rainfall from 1 Jan. to 2 August....30 640.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Fenterfi'ld	b	57	37	0·25
Grafton..	b	64	33	0
Inverell..	b	62	33	0.13
Walgett..	..	..	..	..
Bourke ..	..	..	..	..
Narra'uri..	b	60	52	0
Armidale.	f	59	26	0·47
Gunnedah	f	66	37	0·97
Coonab'an	n	62	33	0 12
P. Macqrie	b	64	47	0·06
Murr'umd	f	64	42	0·23
Cassilis ..	u	61	34	0
Mus'brook	u	60	46	0·02
Dubbo...	f	61	44	0
Mudgee ..	f	68	39	0
Maitland .	b	6	48	0
Newcastle	b	63	49	0
Orange ..	c	3	29	9
Bathurst..	u	54	35	0
MtVictoria	b	49	32	0
Forbes...	f	59	41	0
Bendemeer	..	..	..	..
SYDNEY	b	66	46	0
Wentw'th	b	61	32	0
Young...	n	57	44	0·10
Woll'gong	b	66	44	0
Moss Vale	n	52	30	0
Euston...	b	71	30	0
Goulburn.	u	57	31	0·03
Wagga ..	f	58	31	0
Cape Geo.	b	60	..	0
Queanb'an	b	60	32	0
Deniliquin	b	60	35	0
Albury...	f	62	32	0
Bodalla ..	n	64	30	0
Cooma...	n	36	25	0
Eden.....	b	57	42	0
Gabo Isld.	b	54	47	0

METEOROLOGICAL REPORTS.—August 4.

South Australia: Generally cloudy on coast, showery at Robe; rain at Adelaide 0·35, Cape Borda 0·15, Robe 0·80. Victoria: Cloudy generally, barometer steady, sea smooth; light misty rain at Wilson's Promontory; rain at Melbourne 0·05, Cape Otway 0·34, Portland 0·45, and Wilson's Promontory 0·21. New South Wales: Cloudy generally, heavy rains and still raining up in north and N.W. districts. See map. Barometer on coast very unsteady, sea smooth, and wind light but very variable. Queensland: Brisbane, fine, light N.E. breeze, rain 0·65, sea moderate; Rockhampton, barometer 30·15, wind inclining to S.E. 3 p.m. Observations.—Victoria: Melbourne, S.W., 8, cloudy, 30·19; Portland, N.N.W., 23, fine, sea smooth; Cape Otway, N.W., 8, cloudy, sea smooth; Wilson's Promontory, W.S.W., 18, cloudy. sea smooth. New South Wales: Wentworth, S., cloudy, 61·; Deniliquin, S.W., fine, 56·; Albury, S.W., 10, cloudy. 54·; Goulburn, calm, cloudy, 54·; Forbes, calm, cloudy, 52·; Eden, S.W., 14, fine, sea smooth; Moruya, S.E., 20, cloudy, moderate sea; Cape George, S.S.E., 20, cloudy, sea moderate; Sydney. S.S.W., 14, showery, sea smooth, barometer steady; Newcastle, W., 10, cloudy, 54·, sea smooth; Port Macquarie, S.S.W., 20, showery, 59·, see smooth. Clarence River, S., 14, cloudy, 62·, sea moderate. State of Rivers: Murrumbidgee—At Wagga, 2 feet 1 inch above summer level. Murray—At Albury, 4 feet 6 inches above summer level. Darling—At Wentworth, 13 feet 3 inches above summer level; Pooncarie, 20 feet 6 inches above summer level; Menindie, 24 feet 8 inches above summer level; Wilcannia, 30 feet 10 inches above summer level.

WEATHER MAP.

4 AUG', 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 4 August ..... 30·642.

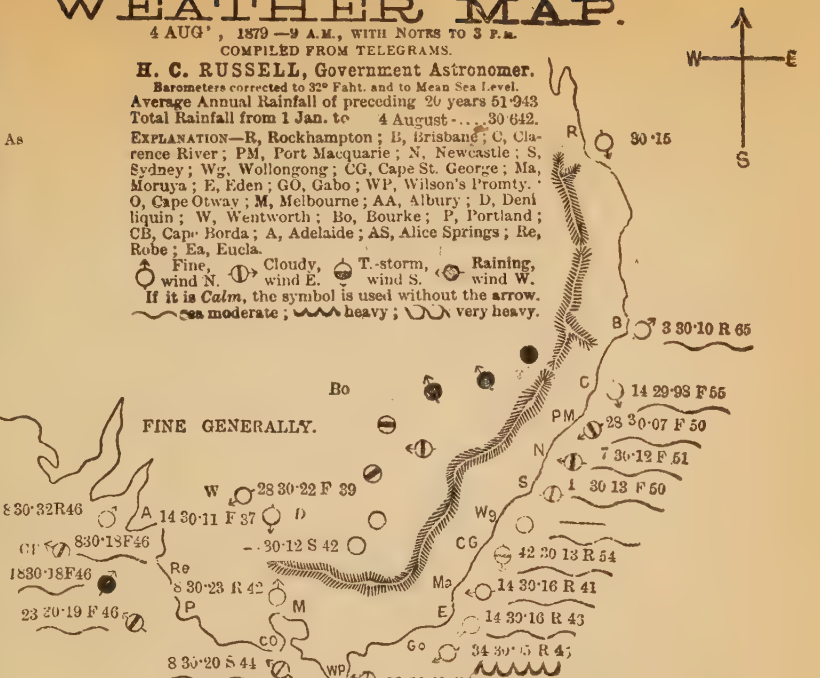
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain	
Tenterfi'ld	r	60	45	0·33	
Grafton..	c	62	42	0·37	
Inverell..	r	62	38	0·34	
Walgett..	..	..	..	..	
Bourke ..	..	.	..	..	
Narrabri..	r	58	49	0·74	As
Armidale.	r	60	29	0·49	
Gunnedah	r	55	43	0·53	
Coonab'an	r	68	43	0	
P. Macqrie	u	62	50	0·85	
Murr'undi	r	55	45	0·48	
Cassilis ..	u	61	30	0·16	
Mus'brook	r	63	46	0·16	
Dubbo...	—	62	50	0	
Mudgee ..	u	55	45	0	
Maitland .	u	60	50	0·10	
Newcastle	g	65	50	0·83	
Orange ..	c	50	36	0	
Bathurst..	u	57	36	0	
MtVictoria	c	57	39	0	
Forbes...	g	53	39	0	
Bendemeer	.	..	..	..	
		Ea			
SYDNEY	g	66	49	0	
Wentw'th	u	61	33	0	
Young...	b	57	39	0	
Woll'gong	b	65	46	0	
Moss Vale	..	..	.	.	
Euston...	b	68	29	0·03	
Goulburn.	g	52	33	0	
Wagga ..	f	61	33	0	
Cape Geo.	c	61	..	0	
Queanb'an	u	54	31	0	
Deniliquin	b	58	31	0	
Albury...	b	57	29	0	
Bodalla ..	u	66	21	0	
Cooma...	n	53	23	0	
Eden	b	55	43	0	
Gabo Isld.	b	63	44	0	



METEOROLOGICAL REPORTS.—AUGUST 5.

South Australia: Fine generally; barometer rising, sea smooth; rain at Adelaide, 0·27; Eucla, 0·13; Cape Borda, 0·78; and Yatala, 0·10. Victoria: Cloudy generally; light passing showers at Portland; wind light and variable, sea smooth; rain at Cape Otway, 0·45; Portland, 0·02; and Wilson's Promontory, 0·02. New South Wales: Cloudy throughout except at Eden, Gabo, and Deniliquin; rain still continues up in the N. and N.W. districts (for amounts measured see tabular portion of weather map); on the coast the barometer is rising; the wind generally from the S., and the sea smooth or moderate. Queensland: Brisbane, dull and threatening; light W. wind, sea smooth; rain, 0·05; Rockhampton, dull and threatening; wind inclining to S. 3 p.m. Observations.—Victoria: Melbourne, S.S.W. 13, fine, barometer steady; Portland, S.S.E., 28, passing showers, sea smooth; Cape Otway, S.S.E., 3, misty, rain, sea smooth; Wilson's Promontory, S.S.E., 23, cloudy, sea smooth. New South Wales: Wentworth, S., dull, temperature 59.; Deniliquin, calm, fine; Albury, W.N.W, light, dull, temperature 55·; Goulburn, calm, cloudy, temperature 54·; Forbes, calm, cloudy, temperature 53·; Eden, S.S.W., 14, fine, light, temperature 52·; Moruya, S.E., 42, fine, moderate, temperature 52·; Cape George, S., 42, cloudy, smooth, temperature 51·; Sydney, S.S.W., 14, raining, temperature 50·; Newcastle, S.S.E., fresh, showery, little sea, temperature 54·; Port Macquarie, S.S.W., 42, raining, smooth, temperature 58·; Clarence River, S.W., smooth, temperature 59.; State of Rivers: Murrumbidgee—At Hay, 6 feet 8 inches above summer level; at Balranald, 10 feet 9 inches above summer level. Murray—At Albury, 5 feet 6 inches above summer level; at Euston, 9 feet above summer level. Darling—At Wentworth, 13 feet 7 inches above summer level; at Pooncarie, 20 feet 7 inches above summer level; Menindie, 24 feet 8 inches above summer level; Wilcannia, 30 feet 9 inches above summer level.

WEATHER MAP.

5 AUG', 1879 — 9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 5 August.....31·165.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Seas moderate; heavy; very heavy.

Stations	Weather	Max.	Min.	Rain
Tenterfield	d	55	46	0·45
Grafton..	d	58	38	0·90
Invereil..	u	54	39	0·46
Walgett..	..	..	..	..
Bourke..	c	59	45	0·03
Narrandera..	b	56	46	0·38
Armidale.	u	59	28	1·[illegible]
Gunnedah	c	57	41	0·56
Coonabarabran	c	59	42	0·23
P. Macqrie	r	54	49	1·11
Mururoona	u	54	34	0·3[illegible]
Cassilis..	u	51	30	0·1[illegible]
Mus'l'brook	r	59	46	0·40
Dubbo..	p	57	42	0
Bluegee..	p	56	45	0·08
Mudgee..	r	56	52	0·75
Newcastle	c	59	48	1·28
Orange..	c	49	29	0
Bathurst.	u	48	40	0·12
MtVictoria	r	47	39	0·42
Forbes..	b	55	37	0
Bendemeer	..	..	..	..
Sydney	r	55	48	0·52
Wentworth	u	59	35	0
Young..	u	53	34	0
Woll'gong	p	57	48	0·56
Moss Vale	u	49	38	0·06
Euston..	u	60	35	0
Goulburn.	u	47	39	0
Wagga..	u	59	32	0
Cape Geo.	r	56	..	0·01
Queanb'an	c	53	33	0
Deniliquin	b	55	34	0
Albury..	c	56	37	0
Bodalla..	p	61	35	0
Cooma..	c	52	38	0
Eden....	b	54	40	0
Gabo Isld	b	54	42	0

METEOROLOGICAL REPORTS.—August 6.

South Australia: No telegrams. Victoria: Weather generally cloudy, squally, and showery; at Portland heavy dew and foggy at Melbourne; barometer rising; sea smooth. Rain at Portland, 0·15; Cape Otway, 0·06; and Wilson's Promontory, 0·02. New South Wales: Weather still continues cloudy; heavy rains in N. and N.W. districts, for measurements whereof see weather map; barometer rising; sea smooth; wind fresh from S.E. and S.W. Queensland: No telegrams. 3 p.m. Observations.—Victoria: Melbourne, S.E., 18, fine, temperature 56°; Portland, E.S.E., 34, fine, sea slight, temperature 52°; Cape Otway, S.E., 40, misty, fine, moderate, temperature 51.; Wilson's Promontory, W., 28, dull, sea moderate, temperature 52°. New South Wales: Wentworth, N.W., raining, temperature 54°; Deniliquin, calm, dull, temperature 56°; Albury, N.W., light, cloudy, 57°; Goulburn, E.S.E., dull, 55°; Forbes, calm, showery, 50°; Eden, S., 14, dull, light, 55°; Moruya, S.E., 56, showery, moderate, 55°; Cape George, S., 42, showery, moderate, 54°; Sydney, S.E., 28, dull, smooth, 55°; Newcastle, S.S.E., strong, cloudy little sea, 59°; Port Macquarie, S.E., 30, raining, 61., sea smooth; Clarence River, N.W., raining, moderate, 59. State of Rivers: Murrumbidgee—At Hay, 7 feet above summer level; at Balranald, 10 feet 9 inches above summer level. Murray—At Albury, 5 feet 2 inches above summer level; at Euston, 9 feet 2 inches above summer level. Darling—At Wentworth, 13 feet 7 inches above summer level; at Pooncarie, 20 feet 7 inches above summer level; Menindie, 24 feet 8 inches above summer level; Wilcannia, 30 feet 8 inches above summer level.

WEATHER MAP.

6 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 6 August.....32·925.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	r	57	45	0·20
Grafton..	r	60	36	0
Inverell..	c	58	41	0·03
Walgett..	..	..	..	.
Bourke ..	b	61	40	0
Narrabri..	u	57	48	0
Armidale.	r	60	29	0·15
Gunnedah	u	60	44	0·01
Coonab'an	r	55	43	0·06
P. Macqrie	r	59	52	1·12
Murr'undi	u	52	43	0
Cassilis ..	u	52	31	0·05
Mus'brook	r	59	45	0
Dubbo...	u	57	46	0·07
Mudgee ..	u	56	46	0
Maitland .	r	55	44	0·15
Newcastle	q	59	49	0·04
Orange ..	c	48	30	0
Bathurst..	u	47	40	0
MtVictoria	r	41	32	0·26
Forbes...	p	54	38	0·21
Bendemeer	..	..	..	..
		Ea		
SYDNEY	u	54	49	1·70
Wentw'th	r	59	37	0
Young...	u	52	39	0
Woll'gong	p	59	46	0·12
Moss Vale	r	42	38	0·05
Euston...	r	69	36	0·19
Goulburn.	u	46	38	0
Wagga ..	p	56	44	0
Cape Geo.	p	54	[illegible]	0·77
Queanb'an	b	59	35	0
Deniliquin	u	56	46	0
Albury...	u	51	33	0
Bodalla ..	b	59	39	0
Cooma...	u	46	37	0
Eden....	u	53	41	0
Gabo Isld.	u	53	4[illegible]	0·0[illegible]

METEOROLOGICAL REPORTS.—August 7.

South Australia; Reports fine weather generally, bar high and rising, sea smooth, wind moderate from S.E. Victoria: Cloudy generally, but no rain falling, sea rough from Portland to Wilson's Promontory; barometer steady, wind strong from S.E. and E. New South Wales: Raining generally; heavy rain fell at several of the stations yesterday and last night, for measurements see weather map, heavy sea on coast, with strong S.E. wind and falling bar. Queensland: Brisbane, light W. wind and fine, barometer falling, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, wind S.E., 18, weather cloudy, temperature 56°; Portland, wind E.S.E., 48, weather squally, sea rough, temperature 54°; Cape Otway, wind S.E., 65, weather gloomy, sea rather rough, temperature 51°; Wilson's Promontory, wind E., 34, weather cloudy, sea rather rough, temperature 50°; New South Wales: Wentworth, S.E., fresh, gloomy, 56°; Deniliquin, S.E., 14, cloudy, 55°; Albury, S.E., 28, cloudy, 58°; Goulburn, E.S.E., showery, 55°; Eden, E.S.E., 28, showery, heavy sea, 53°; Moruya, S.E., 56, showery, heavy sea, 54°; Cape George, E., 56, raining, heavy sea, 52°; Sydney, S.E., 20, raining, sea moderate, 53°; Newcastle, S., strong, raining, heavy, 55°. State of Rivers: Murrumbidgee—At Wagga, 12 feet 6 inches above summer level; at Hay, 10 feet 4 inches above summer level; at Balranald, 10 feet 6 inches above summer level. Murray—At Albury, 4 feet 10 inches above summer level; at Euston, 10 feet above summer level. Darling—At Wentworth, 13 feet 7 inches above summer level; at Pooncarie, 20 feet 8 inches above summer level; Menindie, 24 feet 8 inches above summer

WEATHER MAP.

7 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 7 August.....33 233.

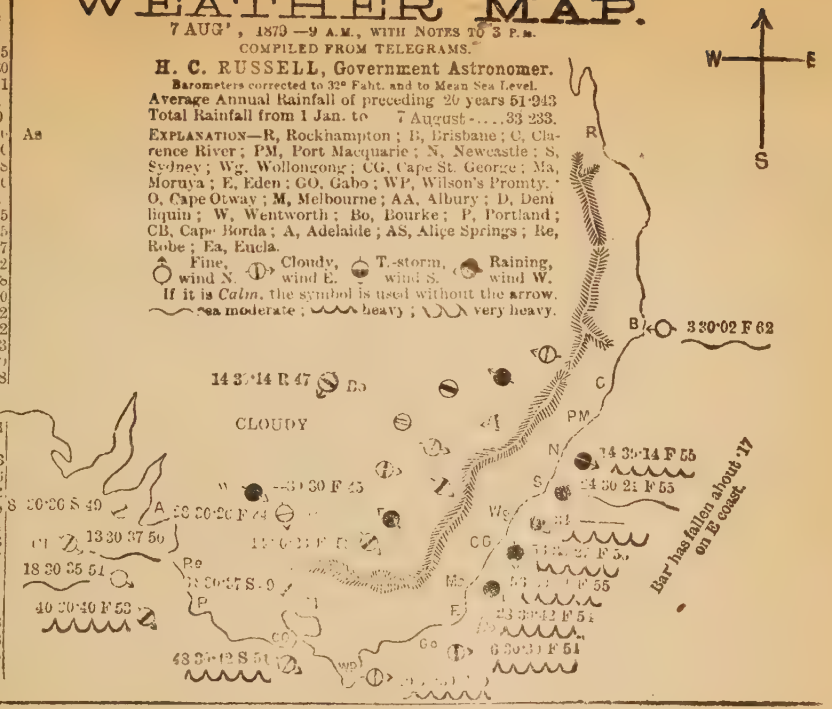
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'thr	Max	Min	Rain
Tenterfi'ld	u	52	43	0·55
Grafton..	b	59	43	0·80
Inverell..	r	55	49	0·31
Walgett..	.	..	..	.
Bourke ..	u	67	41	0
Narra'ori..	u	69	49	0·16
Armidale.	u	60	29	[illegible]
Gunnedah	u	58	46	0·28
Coonab'an	r	54	36	0·40
P. Macqrie	..	..	..	..
Murr'umbi	r	53	43	0·55
Cassilis ..	r	51	48	1·05
Mus'brook	u	59	45	0·57
Dubbo...	r	59	49	0·72
Mudgee ..	u	56	49	0·38
Maitland .	r	59	57	3·20
Newcastle	r	60	49	1·72
Orange ..	p	49	34	0·62
Bathurst..	u	49	44	0·23
McVictoria	r	43	37	2·80
Forbes...	u	54	39	0·58
Bendemeer	..	..	..	..
SYDNEY	p	58	53	0·31
Wentw'th	r	48	38	0
Young...	u	53	46	0·3
Woll'gong	p	58	48	0·36
Moss Vale	r	47	40	0·42
Euston...	r	54	41	0·49
Goulburn.	r	49	41	0·24
Wagga ..	d	52	44	0·13
Cape Geo.	p	56	..	0·67
Queanb'an	u	51	42	0
Deniliquin	u	56	49	1·21
Albury...	u	61	42	0
Bodalla ..	p	59	48	0·36
Cooma...	r	48	35	0·08
Eden....	u	56	46	0·05
Gabo Isld.	u	53	45	0·12



METEOROLOGICAL REPORTS.—AUGUST 8.

South Australia: Fine, with falling barometer, a smooth sea, and light E. winds, no rain. Victoria: Cloudy, strong E. wind and moderately rough sea; barometers falling, no rain. New South Wales: Raining on coast generally, dull and threatening inland; heavy rains at Newcastle, Maitland, and Wollongong; see map; barometer on coast low and falling; sea heavy, and wind strong from S. and S.S.E.; no telegrams from Port Macquarie and Clarence River. Quennsland—Brisbane: Fine, with light S.W. wind and rising barometer, sea mederate. 3 p.m. Observations.—Victoria—Melbourne: S., 13, dull, temperature 56°; Portland, E.S.E., 28, fine, slight sea, temperature 54°; Cape Otway, S.E., 18, threatening, rather rough sea, temperature 50°; Wilson's Promontory, E.S.E., 23, light rain, moderate sea, temperature 51°; New South Wales: Wentworth, S.W., fine, temperature 62°; Deniliquin, S., 56, fine, temperature 57°; Albury, S., light, fine, temperature 60°; Goulburn, S.W., strong, dull, temperature 58°; Forbes, calm, dull, temperature 51°; Eden, S., 28, showery, heavy sea, 52°; Moruya, S.E., 56, raining heavy, temperature 55°; Sydney, S.W., 18, raining, temperature 55°; Newcastle, S.S.W., strong, showery, very heavy sea, temperature 52°. State of Rivers: Murrumbidgee—At Wagga, 9 feet 6 inches above summer level; at Hay, 8 feet 4 inches above summer level; at Balranald, 10 feet 6 inches above summer level. Murray—At Albury, 1 feet 8 inches above summer level; at Euston, 9 feet above summer level. Darling—At Wentworth, 13 feet 7 inches above summer level; at Pooncarie, 20 feet 0 inches above summer level; Menindie, 24 feet 9 inches above summer levl; Wilcannia, 30 feet 6 inches above summer level.

WEATHER MAP.

8 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·213

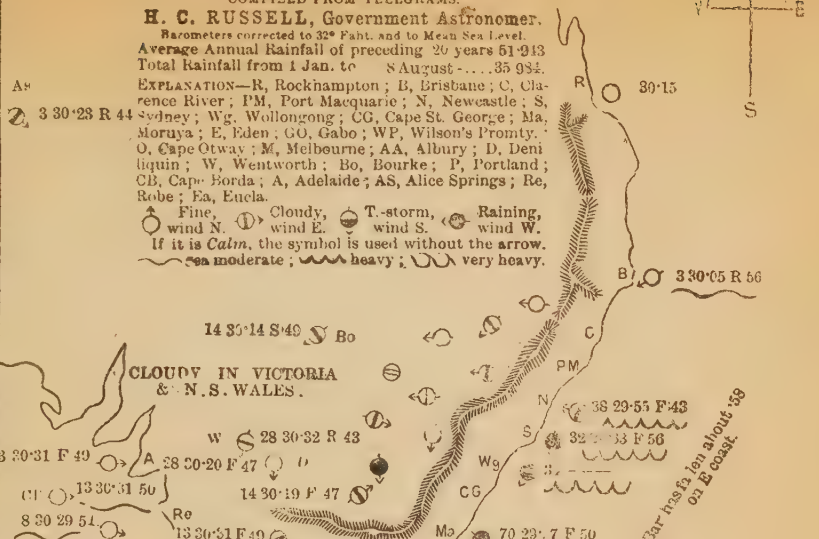
Total Rainfall from 1 Jan. to 8 August.....35·934.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



		Max	Min	Rain
Centerfield	c	55	35	0
Grafton..	b	75	33	0
Inverell..	u	59	34	0·02
Walgett..		..	..	.
Bourke ..	c	63	38	0
Narrabri .	c	61	40	0
Armidale .	c	58	23	0·07
Grenfell	u	67	36	0
Cootamundra	c	60	37	0
P. Macquarie	..	..	..	..
Murrumbidgee	u	54	40	0·62
Cassilis ..	u	52	36	1·16
Muswellbrook	r	62	40	0·09
Dubbo...	r	53	42	1·21
Mudgee ..	u	55	38	1·06
Maitland .	r	59	47	4·02
Newcastle	q	57	42	0·65
Orange ..	c	51	21	0
Bathurst..	u	50	34	0·44
Mt Victoria	r	48	35	2·45
Forbes...	u	52	37	1·02
Bendemeer	..	..	..	..
15 30·11 57 Ea				
SYDNEY	u	58	51	2·75
Wentw'th	c	52	38	0·06
Young...	u	54	46	0·25
Woll'gong	r	59	50	3·24
Moss Vale	r	52	41	2·90
Euston...	b	52	35	0·10
Goulburn.	p	51	40	0·49
Wagga ..	u	57	41	0
Cape Geo.	..	..	..	.
Queanb'an	u	49	43	0·67
Deniliquin	b	52	44	0·05
Albury...	u	56	44	0·07
Bodalla ..	p	56	46	1·06
Cooma...	p	44	37	0·15
Eden	p	54	49	0·12
Gabo Isld.	p	55	50	0·20

METEOROLOGICAL REPORTS.—August 9.

South Australia; Generally fine and clear but raining at Alice Springs. Victoria: Cloudy generally, no rain, sea smooth, barometers falling, wind light from N. and N.E. New South Wales: Fine generally, weather clearing all over colony. See weather map for measurements of yesterday's rain. Sea on coast still rough, but going down; wind moderate from S.W. 3 p.m. Observations: Victoria: Melbourne, barometer falling; Portland, N.N.W., 8, cloudy, sea smooth; Cape Otway, S.E., 8, cloudy, moderate sea; Wilson's Promontory, E.N.E., 18, cloudy, sea smooth. New South Wales: Wentworth, N.E., cloudy, like rain, 58°; Deniliquin, S., 14, fine, 55°; Albury, W. fine, clear, 58°; Goulburn, calm, fine, 56°; Forbes, S.W., fine, 56°; Eden, S.W., 20, like rain, 55°; Moruya, E.S.E. 20, cloudy 66°, heavy sea; Sydney, very fine, barometer steady, sea moderate; Newcastle, S.S.W. fresh breeze, sea moderate 60°; Port Macquarie, W. 30, fine, sea smooth, 63°; Clarence River, N.W. fine, sea smooth. State of Rivers: Murrumbidgee—At Wagga, 9 feet above summer level; at Hay 11 feet above summer level; at Balranald, 10 feet 6 inches above summer level. Murray—At Albury, 4 feet 3 inches above summer level; at Euston, 9 feet 6 inches above summer level. Darling—At Wentworth, 13 feet 9 inches above summer level; at Pooncarie, 20 feet 8 inches above summer level; Menindie, 24 feet 9 inches above summer level; Wilcannia, 30 feet 6 inches above summer level.

WEATHER MAP.

9 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

Total Rainfall from 1 Jan. to 9 August - . . . . 36·393.

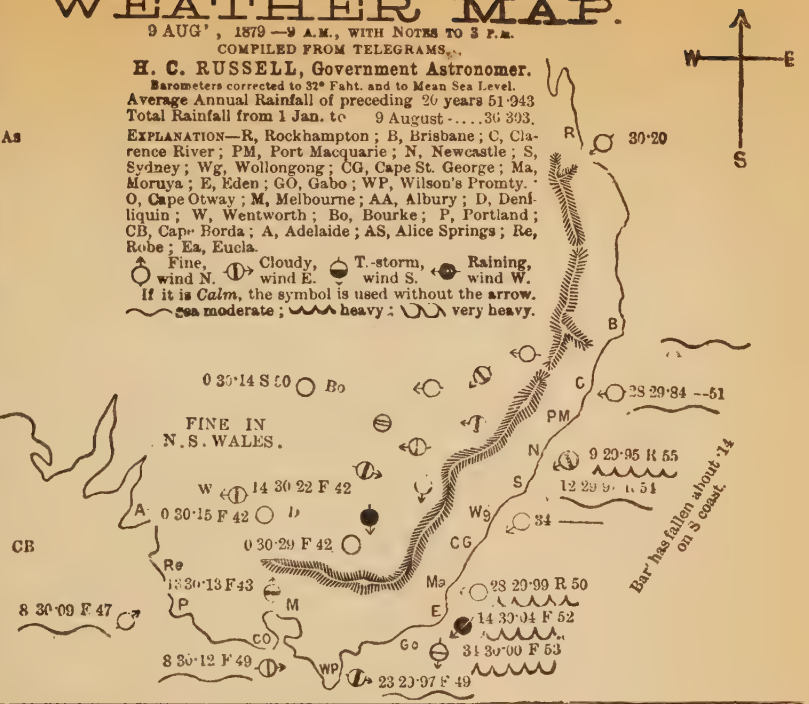
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	44	38	0
Grafton..	b	62	35	0
Inverell..	b	58	34	0·01
Walgett..	..	..	..	..
Bourke ..	..	..	..	..
Narrabri..	b	61	39	0
Armidale.	u	57	22	0·45
Gunnedah	..	..	..	..
Coonab'an	b	53	36	0
P. Macqrie	..	..	..	..
Murr'undi	b	47	37	0·63
Cassilis ..	b	53	28	0·17
Mus'brook	o	56	41	0·09
Dubbo...	b	59	41	0
Mudgee..	b	56	40	0
Maitland .	b	54	48	0·55
Newcastle	g	56	50	1·32
Orange ..	b	43	26	0
Bathurst..	b	51	49	0
MtVictoria	b	49	37	0·44
Forbes...	b	53	40	0
Bendemeer	..	..	..	..
SYDNEY	c	60	52	0·32
Wentw'th	g	61	34	0
Young...	b	58	39	0
Woll'gong	b	65	50	0·99
Moss Vale	b	55	41	2·10
Euston...	f	66	31	0
Goulburn.	o	49	37	0·04
Wagga ..	b	59	35	0
Cape Geo.	..	..	..	..
Queanb'an	b	54	38	0
Deniliquin	b	60	41	0
Albury...	b	62	3	0
Bodalla ..	b	50	46	1·00
Cooma...	c	46	35	0
Eden....	p	52	49	0·65
Gabo Isld.	m	55	51	0·43



METEOROLOGICAL REPORTS.—August 11.

South Australia: Heavy rains and strong W. gale on coast, sea rough, barometers falling, rain at Adelaide 0·04, Cape Borda 0·53, and Robe 0·56. Victoria: Fine at Melbourne and Portland, showery at Wilson's Promontory, 0·07, and Cape Otway 0·28, sea smooth, barometers falling. New South Wales: Fine generally, light westerly winds and smooth sea on coasts, barometers steady. Queensland: Fine at Rockhampton, smooth sea at Moreton Bay Heads. 3 p.m. Observations.—Victoria: Melbourne, N.W., 18, dull, temperature 59·; Portland, N.N.W., 28, slight sea, temperature 52·; Cape Otway, W., 28, dull, rather rough sea, temperature 54·; Wilson's Promontory, W., 28, hail storms, dull, moderate sea, temperature 50· New South Wales: Wentworth, N.N.W., fresh, cloudy, 64·; Deniliquin, S.W., 14, threatening, 61·; Forbes, calm, cloudy, 54·; Goulburn, W., fine, 60·; Albury, N.W., light, showery, 57·; Eden, N.E., 14, fine, light sea, 58·; Moruya, N.W., 20, cloudy, sea smooth, 64·; Cape George, W., 28, cloudy, light sea, 62·; Sydney, S.S.W., 8, dull, 60·; Newcastle, N.W., light, fine, sea smooth, 62·; Port Macquarie, calm, cloudy, sea smooth, 62·; Clarence River, S.E., fine, sea smooth, 66·. State of Rivers: Murrumbidgee—At Wagga, 7 feet 8 inches above summer level; at Hay, 11 feet 6 inches above summer level; at Balranald, 10 feet 9 inches above summer level. Murray—At Albury, 4 feet 9 inches above summer level; at Euston, 9 feet 6 inches above summer level. Darling—At Wentworth, 13 feet 10 inches above summer level; at Pooncarie, 20 feet 6 inches above summer level; at Menindie, 24 feet 9 inches above summer level; Wilcannia, 30 feet 6 inches above summer evel.

WEATHER MAP.

11 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 11 August - . . . . 36·304.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weth'r	Max	Min	Rain
Tenterfi'ld	b	67	59	0
Grafton..	b	77	31	0
Inverell..	g	58	35	0
Walgett..	.	..	..	0
Bourke ..	b	74	52	0
Narrabri..	fg	64	39	0
Armidale.	f	65	24	0
Gunnedah	u	71	36	0
Coonabar	g	68	35	0
P. Macqrie	b	68	45	0
Murrumbd	u	57	41	0
Cassilis ..	g	62	29	0
Mus'brook	b	66	37	0
Dubbo...	c	60	43	0
Mudgee ..	g	69	38	0
Maitland	bb	63	56	0
Newcastle	b	67	46	0
Orange ..	b	51	30	0
Bathurst.	b	57	38	0
MtVictoria	b	53	34	0
Forbes...	b	59	39	0
Bendemeer	..	..	..	..
		Ea		
SYDNEY	b	63	45	0
Wentw'th	b	47	38	0·07
Young...	b	51	40	0
Woll'gong	b	66	49	0
Moss Vale	b	52	37	0
Euston...	b	74	36	0·06
Goulburn.	b	52	36	0
Wagga ..	g	62	38	0
Cape Geo	b	62	..	0
Queanb'n	b	60	42	0
Deniliquin	g	66	45	0·16
Albury...	u	62	39	0
Rodd'a ...	n	65	38	0·08
Cooma...	b	55	28	0
Eden ...	b	56	42	0
Gabo Isld	g	59	45	0

METEOROLOGICAL REPORTS.—AUGUST 12.

South Australia: Adelaide, showery, rain 0·60; Cape Borda, squally, sea rough, bar rising. Victoria: Cloudy; showery at Portland, rain 0·42, and at Wilson's rain 0·41, barometers steady, light W wind; sea rather rough at Cape Otway, rain 0·21; rain at Melbourne 0·03. New South Wales: Fine generally, sea smooth, barometers falling, moderate W. winds and calms; for rain measurements see Weather Map. Queensland: Smooth sea at Moreton Bay Heads; Rockhampton, fine, wind inclining to E. 3 p.m. Observations. Victoria: Melbourne, S.W., [illegible], squally, showery, temperature 49; Portland, S.W., 34, squally and showery, sea smooth, temperature 49·; Cape Otway, N.W., 13, showery, sea moderate, temperature [illegible]; Wilson's Promontory, W., 13, showery, sea smooth, temperature 51·. New South Wales: Wentworth, S.W., fine, temperature 64·; Albury, W., dull, temperature 55·; Goulburn, W., showery, temperature 57·; Forbes, S.W., dull, temperature 56·; Eden, S.E., 14, fine, sea slight, temperature 58·; Moruya, S.E., 28, dull, sea smooth, temperature 58·; Sydney, W., 20, fine, sea smooth, temperature 61·; Newcastle, W.N.W., strong, fine, sea smooth, temperature 60·; Port Macquarie, S.W., 56, fine, sea smooth, temperature 63·; Clarence River, N.W., 28, fine, sea smooth, temperature 69·. State of Rivers: Murrumbidgee—At Hay, 11 feet 8 inches above summer level; at Balranald, 10 feet 9 inches above summer level. Murray—At Euston, 9 feet 8 inches above summer level.

WEATHER MAP.

12 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 12 August - . . . . 36·320.

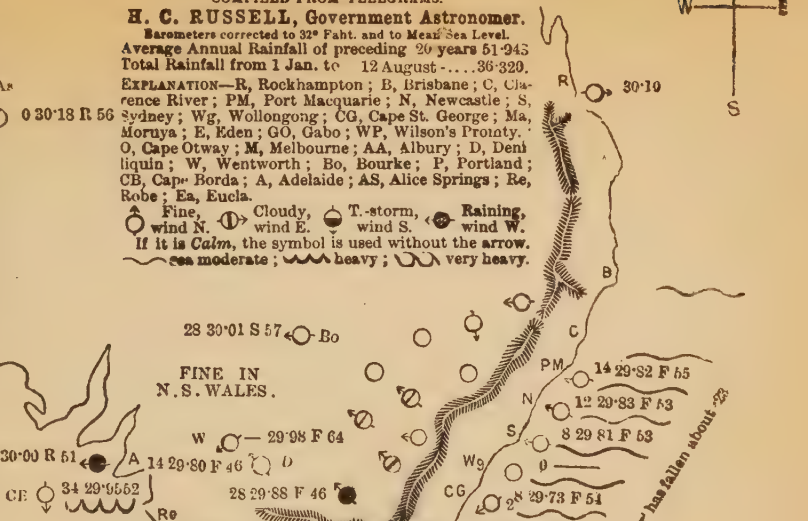
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weather	Max	Min	Rain
Tenterfield	b	59	45	0
Grafton	.	..	..	..
Inverell	f	42	37	0·43
Walgett	.	..	..	..
Bourke	b	76	45	0
Narrandera	n	60	43	0·18
Armidale	b	62	25	0·15
Gunnedah	b	65	35	0
Coonabarabran	n	58	49	0·05
P. Macquarie	b	57	48	0
Murrumbidgee	u	61	48	0
Cassilis	b	63	27	0·20
Mus'brook	b	69	42	0·23
Dubbo	b	60	43	0·08
Mudgee	f	60	38	0·35
Maitland	b	68	54	0·13
Newcastle	b	66	47	0·12
Orange	g	51	29	0·66
Bathurst	g	55	36	0·34
Mt Victoria	c	52	34	0·08
Forbes	b	59	36	0·22
Beademeer	..	..	..	..
SYDNEY	b	63	48	0·02
Wentworth	b	..	..	..
Young	u	59	41	0·05
Woll'gong	b	68	45	0
Moss Vale	b	55	37	0
Euston	.	..	..	..
Coulburn	b	6[illegible]	38	0·06
Wagga	f	5[illegible]	40	0·15
Cape Geo.	b	6[illegible]	..	0
Queanb'an	b	58	38	0
Deniliquin	b	63	50	0·02
Albury	b	57	37	0·57
Fodalla	g	70	38	0
Cooma	n	57	30	0
Eden	b	59	42	0
Gabo Isld	b	64	45	0·07



METEOROLOGICAL REPORTS.—August 13.

South Australia: Reports barometers rising slowly, rain has fallen generally S. of Port Augusta, sea smooth; rain at Adelaide 0·07, Cape Borda 0·06, and Robe 0·02. Victoria: Showery generally with a rising barometer, light S.W. and W. winds and a smooth sea; rain at Melbourne 0·32, Cape Otway 0·62, Portland 0.27, and Wilson's Promontory 0·05. New South Wales: Weather fine generally, cloudy at a few of the inland W. stations, viz., Bathurst, Orange, Forbes, Young, &c., barometer falling on coast; sea rough at Gabo, smooth elsewhere. See weather map for rain measurement. Queensland: Rockhampton fine, smooth sea at Moreton Bay Heads. 3 p.m. Observations—Victoria: Melbourne, S.W., 13, fine, barometer steady; Portland, W.S.W., 13, cloudy, sea smooth; Cape Otway, W., 13, showery, moderate sea; Wilson's Promontory, S., 13, cloudy, sea smooth. New South Wales: Wentworth, S.S.W., fine, 60°; Deniliquin, S.W., dull, 55°; Albury, S.W., fine, 56°; Goulburn, W., fine, 55°; Forbes, calm, dull, 54°; Eden, S.W., 23, raining, light, 51°; Cape George, S.W., 42, dull, smooth, 61°; Sydney, W., 28, fine, 57°; Newcastle, W.S.W., fresh, smooth, 59°; Port Macquarie, S.W., 56, fine, smooth, 60°; Clarence River, W., 42, fine, smooth, 64°. State of Rivers: Murrumbidgee—At Wagga, 11 feet above summer level; at Hay, 13 feet above summer level; at Balranald, 10 feet [illegible] inches above summer level. Murray—At Albury, 5 feet 3 inches [illegible] summer level; at Euston, 9 feet 8 inches above summer [illegible] Darling—At Wentworth, 13 feet 11 inches above summer [illegible] 20 feet above summer level; at Menindie, 24 [illegible] summer level; at Wilcannia, 30 feet 6 inches above summer level.

WEATHER MAP.

13 AUG', 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 13 August - . . . . 36·329.

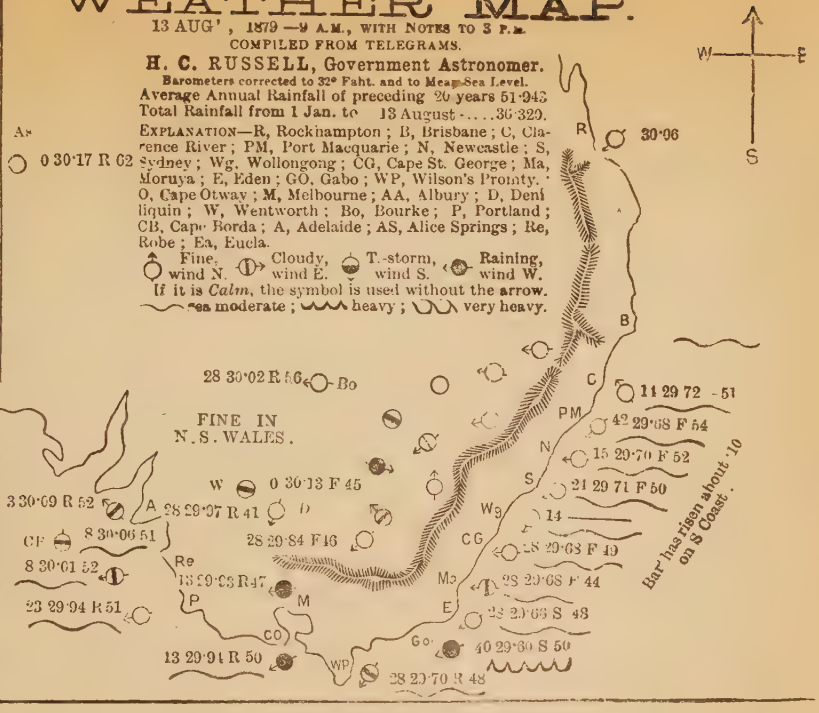
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	57	41	0
Grafton..	b	74	38	0
Inverell..	b	56	41	0
Walgett..	.	..	..	..
Bourke ..	b	71	44	0
Narrabri..	b	63	44	0
Armidale.	g	60	26	0
Gunnedah	b	71	34	0
Coonab'an	u	59	42	0
P. Macqrie	b	67	44	0
Murr'undi	b	57	41	0
Cassilis ..	c	58	29	0·06
Mus'brook	b	70	43	0
Dubbo...	u	59	43	0·06
Mudgee ..	b	63	42	0·30
Maitland .	b	61	53	0
Newcastle	b	64	46	0
Orange ..	g	47	28	0·58
Bathurst..	u	50	37	0·28
MtVictoria	c	46	34	0·06
Forbes...	g	57	37	0·18
Bendemeer	.	..	..	..
8 29·95 62 Ea'				
SYDNEY	b	62	47	0
Wentw'th	f	64	39	0·02
Young...	r	52	42	0·30
Woll'gong	b	61	48	0
Moss Vale	b	51	36	0·41
Euston...	f	55	41	0
Goulburn.	b	52	37	0·42
Wagga ..	b	54	41	0·70
Cape Geo.	b	57	..	0
Queanb'an	b	50	36	0·07
Deniliquin	b	65	45	0·05
Albury...	b	54	38	0·12
Bodalla ..	..	..	..	..
Cooma...	n	51	30	0
Eden....	b	59	43	0·13
Gabo Isld.	q	54	47	0



METEOROLOGICAL REPORTS.—AUGUST 14.

South Australia: Light N.E. winds and cloudy, barometers falling, sea smooth, rain at Adelaide, 0·09, and Cape Borda, 0·13. Victoria: Cloudy generally, light variable winds, showery at Portland, sea smooth, barometers falling; rain at Cape Otway, 0·08; Wilson's Promontory, ·04; and Portland, 0·19. New South Wales: Fine generally sea smooth, barometers rising, light W. and S.W. winds, sea rough at Gabo Island. Queensland: Rockhampton, fine; smooth sea at Moreton Bay Heads. 3 p.m. observations.—Victoria: Melbourne, wind, N.W., 13, weather fine, sea temperate, temperature 57·; Portland, W., 18, fine, sea smooth, temperature 56·; Cape Otway, N.W., 8, cloudy, sea light, temperature 55·: Wilson's Promontory, W., 18, cloudy, sea smooth, temperature 51·. New South Wales: Wentworth, N.W., dull, temperature 60·; Deniliquin, N.W., fine, temperature 57·; Albury, S.W., 14, fine, temperature 57·; Goulburn, W., fine, temperature 58.; Forbes, calm, fine, temperature 52·; Eden, S.W., 14, dull, sea light, temperature 54·; Moruya, S.E., 20, cloudy, heavy easterly swell; Cape George, S., 28, cloudy, sea smooth, temperature 55·; Sydney, S., 8, fine, temperature 56·; Newcastle, S., fresh, fine, little sea, temperature 58·; Port Macquarie, S.S.W., 42, fine, sea smooth, temperature 60·. State of Rivers: Murrumbidgee—At Wagga, 11 feet 5 inches above summer level; at Hay, 12 feet 2 inches above summer level; at Balranald, 11 feet 1 inch above summer level. Murray—At Albury, 5 feet 6 inches above summer level; at Euston, 9 feet 8 inches above summer level. Darling—At Wentworth, 13 feet 11 inches above summer level; at Pooncarie, 20 feet 8 inches above summer level; at Menindie, 24 feet 10 inches above summer level; at Wilcannia, 30 feet 6 inches above summer level.

WEATHER MAP.

14 AUG', 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 14 August-....36·321.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	52	35	0
Grafton..	b	69	52	0
Inverell..	b	54	30	0
Walgett..	.	..	..	..
Bourke ..	b	69	39	0
Narra'ori..	b	61	36	0
Armidale.	b	60	20	0
Gunnedah	b	68	29	0
Coonab'an	b	56	34	0
P. Macqrie	b	62	46	0
Murr'undi	b	51	38	0
Cassilis ..	u	59	29	0
Mus'brook	b	62	35	0
Dubbo...	b	58	41	0
Mudgee ..	u	58	41	0
Maitland .	b	60	50	0
Newcastle	b	62	43	0·01
Orange ..	c	44	29	0
Bathurst..	b	41	37	0
MtVictoria	b	44	32	0
Forbes...	b	57	38	0
Bendemeer	..	..	..	..
0 29·77 57 Ea				
SYDNEY	b	58	45	0
Wentw'th	u	62	41	0·07
Young...	b	52	35	0
Woll'gong	b	63	45	0
Moss Vale	n	46	34	0
Euston...	u	77	40	0
Goulburn.	b	50	32	0
Wagga ..	b	61	34	0
Cape Geo.	c	60	..	0·07
Queanb'an	..	..	..	..
Deniliquin	b	56	43	0
Albury...	b	58	30	0
Bodalla ...	..	..	..	..
Cooma...	c	48	27	0
Eden.....	b	54	45	0
Gabo Isld.	p	58	44	0·21

METEOROLOGICAL REPORTS.—AUGUST 15.

South Australia: Barometer falling, weather threatening and showery, sea smooth, wind light from the W. and W.N.W.; rain at Adelaide, 0·[illegible] and Cape Borda 0·24. Victoria: Cloudy and threatening generally, barometer falling, sea smooth, light N.W. winds prevail; rain at Portland, 0·01. New South Wales: Cloudy generally, with prevailing westerly winds and calms, barometer rising at northern coast station and falling to the south and inland sea generally smooth; heavy E. swell at Moruya Heads. Queensland. Smooth sea at Moreton Bay Heads. 3 p.m. Observations.—Victoria: Melbourne, N., 13, fine, temperature 57°; Portland, W., 2[illegible], passing showers, sea smooth, temperature 5[illegible]°; Cape Otway, N.W., [illegible], cloudy, sea smooth, temperature 56°; Wilson's Promontory, N.E., 8, cloudy, sea smooth, temperature 56°; New South Wales: Wentworth, N.W., fine, temperature 61°; Deniliquin, N.W., fine, temperature 59°; Albury, N.E., light, fine, temperature [illegible]°; Goulburn, W., dull, temperature 57°; Forbes, calm, dull, temperature 51°; Eden, N.E., 14, fine, sea smooth, temperature 59°; Moruya, N.W., 42, fine, sea heavy, temperature 61°; Cape George, N., 28, fine, sea smooth, temperature 57°; Sydney, N., 8, cloudy, sea smooth, temperature [illegible]°; Newcastle, N.W. fresh, dull, sea smooth, temperature 58°; Port Macquarie, calm, cloudy, sea smooth, temperature 59°; Clarence River, S.E., light, fine, sea moderate, temperature 63°. State of Rivers: Murrumbidgee—At Wagga, 1 foot 3 inches above summer level; at Hay, 13 feet 3 inches above summer level; at Balranald, 11 feet 2 inches above summer level. Murray—At Albury, 6 feet 11 inches above summer level; at Euston, 9 feet 10 inches above summer level. Darling—At Wentworth, 13 feet 11 inches above summer level; at Pooncarie, 18 feet 8 inches above summer level; at Menindie, 24 feet 10 inches above summer level; at Wilcannia, 30 feet 6 inches above summer level.

WEATHER MAP.

15 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

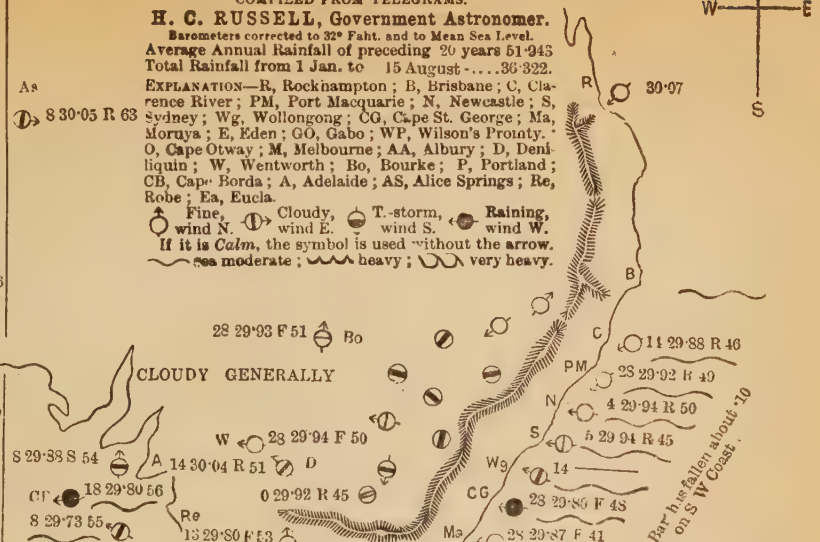
Total Rainfall from 1 Jan. to 15 August - . . . . 36·322.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	45	34	0
Grafton..	b	72	27	0
Inverell..	b	54	31	0
Walgett..	.	..	..	..
Bourke ..	c	72	48	0
Narrabri..	c	59	49	0
Armidale.	b	62	24	0
Gunnedah	b	70	36	0
Coonab'an	c	60	39	0
P. Macqrie	b	63	49	0
Murr'undi	c	53	37	0
Cassilis ..	u	59	31	0
Mus'brook	u	63	38	0
Dubbo...	c	55	43	0
Mudgee ..	u	64	39	0
Maitland .	b	60	50	0
Newcastle	b	59	41	0
Orange ..	r	48	25	0·06
Bathurst..	u	51	31	0
MtVictoria	u	49	30	0
Forbes...	u	54	38	0
Bendemeer	.	..	..	..
18 29·92 61 Ea				
SYDNEY	c	57	41	0
Wentw'th	b	59	40	0
Young...	u	57	41	0·10
Woll'gong	c	60	43	0
Moss Vale	n	50	31	0
Euston...	f	71	36	0
Goulburn.	u	53	39	0
Wagga ..	p	66	38	0·05
Cape Geo.	r	55	..	0·05
Queanb'an	c	54	32	0
Deniliquin	b	66	47	0
Albury...	u	61	35	0·02
Bodalla ..	f	61	34	0·06
Cooma...	c	54	23	0
Eden....	b	55	41	0
Gabo Isld.	b	54	42	0

WEATHER MAP.

16 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

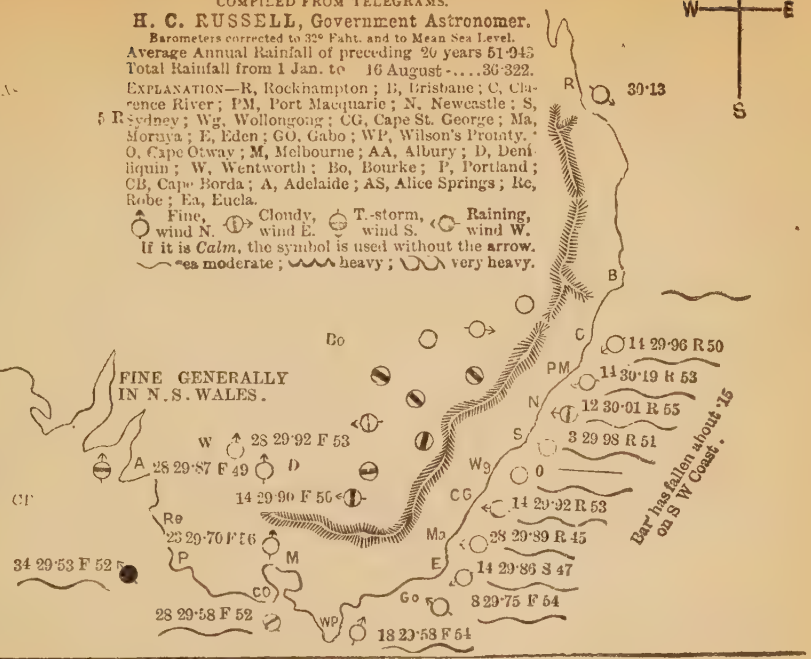
Total Rainfall from 1 Jan. to 16 August - . . . . 36·322.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	Wth'r	Max.	Min	Rain
Tenterfi'ld	b	55	40	0
Grafton..	b	70	30	0
Inverell..	b	56	42	0
Walgett..	..	..	..	..
Bourke ..	b	57	42	0
Narrabri..	b	57	46	0
Armidale.	u	60	23	0
Gunnedah	b	64	37	0·15
Coonab'an	b	57	40	0·18
P. Macqrie	b	61	45	0·03
Murr'undi	b	52	43	0·14
Cassilis ..	b	59	33	0
Mus'brook	b	65	42	0·04
Dubbo...	m	56	46	0·18
Mudgee ..	u	57	43	0·37
Maitland .	b	60	54	0·10
Newcastle	b	62	47	0·10
Orange ..	g	48	26	0·40
Bathurst..	g	47	37	0·17
MtVictoria	c	48	35	0
Forbes...	g	53	40	0
Bendemeer	..	..	..	..
		Ma		
SYDNEY	b	58	45	0
Wentw'th	b	67	42	0
Young...	u	53	44	0
Woll'gong	b	61	48	0
Moss Vale	b	51	37	0·03
Euston...	b	52	34	0
Goulburn.	g	54	34	0·06
Wagga...	g	58	41	0·06
Cape Geo.	b	62	..	0
Queanb'an	c	50	35	0
Deniliquin	b	63	43	0
Albury...	u	55	39	0·03
Bodalla ..	n	66	31	0
Cooma...	c	57	25	0
Eden.....	b	56	42	0
Gabo Isld.	b	65	42	0

METEOROLOGICAL REPORTS.—August 16.

South Australia: No telegrams. Victoria: Cloudy generally, with smooth sea and a falling barometer; squally and showery at Portland; rain at Cape Otway 0·05, Portland 0·08, and Wilsons' Promontory 0·02. New South Wales: Fine generally; cloudy, down S.W., near Goulburn and Cooma; barometer rising generally on coast, and falling inland; sea smooth; light W. winds on coast. For rain measurements see Weather Map. Queensland: Rockhampton, fine; Moreton Bay Heads, smooth sea. 3 p.m. Observations.—Victoria: Melbourne, barometers falling, and very low; Cape Otway, barometer 29·41, N.N.W., 10, squally, 48, moderate sea; Portland, N.W., 34, squally, thunder-showers; Wilson's Promontory, N., 18, sultry, threatening, temperature 62·, smooth sea. New South Wales: Wentworth, N.N.W., 20, squally with rain, temperature 69·; Deniliquin, calm, fine, temperature 61·; Albury, N.W., 15, cloudy, temperature 60·; Goulburn, W., fine, temperature 59·; Forbes, calm, fine, temperature 54·; Eden, N.E., 14, fine, little sea, temperature 61·; Moruya, N.W., fine, moderate sea; Cape George, W., 20, fine, sea smooth, temperature 62·; Sydney, N.N.W., 14, fine, sea smooth, temperature 64·; Newcastle, N.W. 20, fine, sea smooth, temperature 61·; Port Macquarie, N.E., 20, fine, sea smooth, temperature 62·; Clarence River, S.E., 14, fine, sea smooth, temperature 66·. State of Rivers: Murrumbidgee—At Wagga, 12 feet 3 inches above summer level. Murray—At Albury, 7 feet 3 inches above summer level; at Euston, 9 feet 9 inches above summer level. Darling—At Wentworth, 13 feet 11 inches above summer level; at Pooncarie, 20 feet 9 inches above summer level; at Menindie, 24 feet 10 inches above summer level; at Wilcannia, 30 feet 6 inches above summer level.

WEATHER MAP.

18 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 18 August-....36·322.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Prointy. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	b	68	40	0·24
Grafton..	b	79	35	0
Inverell..	b	64	34	0·05
Walgett..	..	.	..	..
Bourke ..	b	71	43	0
Narrabri..	b	65	41	0
Armidale.	b	60	23	0
Gunnedah	b	54	36	0
Coonab'an	b	63	35	0
P. Macqrie	b	70	47	0
Murr'undi	b	59	43	0
Cassilis ..	b	66	32	0
Mus'brook	b	70	43	0
Dubbo.. .	b	78	44	0
Mudgee ..	b	62	41	0
Maitland .	b	65	53	0
Newcastle	b	69	51	0
Orange ..	c	50	27	0·10
Bathurst..	c	56	38	0·17
MtVictoria	b	51	32	0
Forbes...	b	54	41	0·15
Bendemeer	..	..	..	..
SYDNEY	b	65	50	0
Wentw'th	b	60	39	0
Young...	u	54	42	0·38
Woll'gong	b	63	48	0
Moss Vale	b	52	36	0·12
Euston...	b	63	38	0·04
Goulburn.	u	51	35	0·32
Wagga ..	u	64	40	0·40
Cape Geo.	b	64	..	0
Queanb'an	b	57	36	0·47
Deniliquin	b	70	30	0·17
Albury...	u	65	37	0·33
Bodalla ..	c	66	40	0
Cooma...	n	51	29	0·21
Eden....	b	62	48	0
Gabo Isld.	p	68	44	0·10

WEATHER MAP.

19 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 19 August-....36·322.

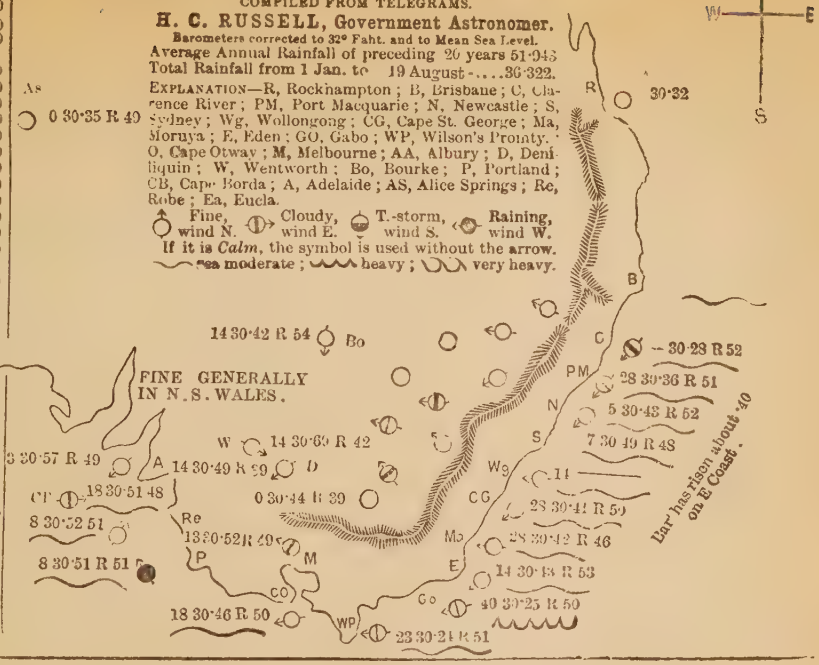
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'Th'r	Max	Min	Rain
Tenterfi'ld	u	66	39	0
Grafton..	u	74	39	0
Inverell..	u	67	34	0
Walgett..	..	..	..	..
Bourke ..	b	66	40	0
Narr'ri..	u	63	42	0
Armidale.	u	58	20	0
Gunnedah	c	71	31	0
Coonab'an	b	58	30	0
P. Macqrie	u	68	43	0
Murr'undi	b	54	34	0
Cassilis ..	b	58	27	0
Mus'brook	b	63	39	0
Dubbo...	b	61	39	0
Mudgee ..	b	63	34	0
Maitland .	b	61	49	0
Newcastle	b	69	42	0
Orange ..	b	45	26	0
Bathurst..	b	47	32	0
MtVictoria	b	48	27	0
Forbes...	b	54	38	0
Bendemeer	...	..	..	..
SYDNEY.	b	59	44	0
Wentw'th	b	62	33	0
Young...	b	50	33	0
Woll'gong	b	63	43	0
Moss Vale	n	52	31	0
Euston...	b	68	28	0
Goulburn.	n	47	27	0
Wagga...	b	53	33	0
Cape Geo.	b	59	..	0·05
Queanb'an	b	52	29	0
Deniliquin	b	56	30	0
Albury...	f	56	34	0·02
Bodalla ..	n	64	34	0
Cooma...	n	50	29	0
Eden.....	b	62	46	0
Gabo Isld.	c	55	45	0·14



WEATHER MAP.

20 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

Total Rainfall from 1 Jan. to 20 August-....36·325.

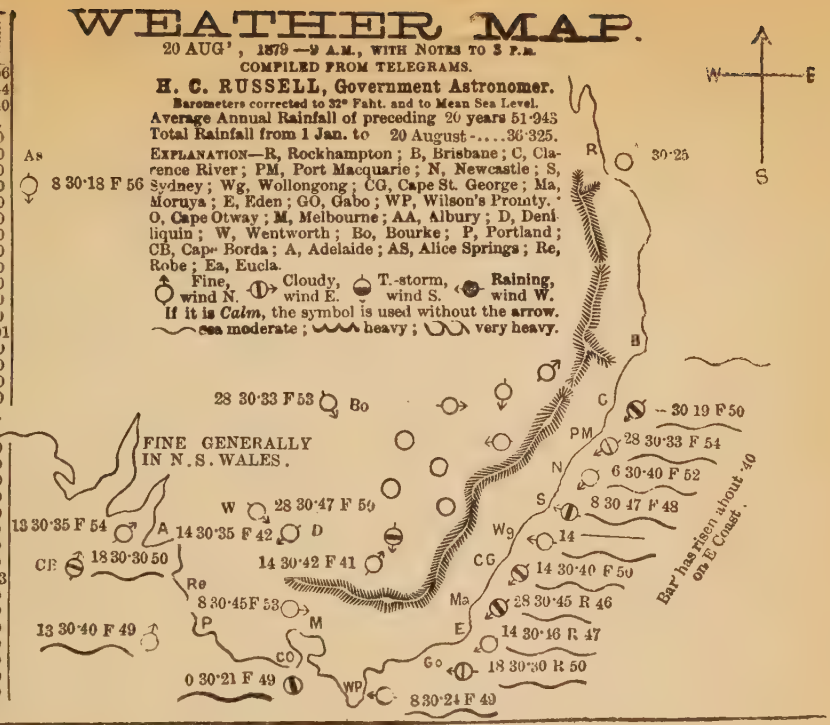
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	68	30	0·56
Grafton..	c	58	37	0·44
Inverell..	b	56	44	0·40
Walgett..	..	..	..	..
Bourke ..	b	76	38	0
Narra'ri..	b	59	44	0
Armidale.	b	60	20	0
Gunnedah	b	66	35	0
Coonab'an	b	62	26	0
P. Macqrie	u	59	46	0
Murr'undi	b	54	34	0
Cassilis ..	b	59	26	0
Mus'brook	u	63	32	0
Dubbo...	b	62	37	0
Mudgee ..	b	69	36	0
Maitland .	c	59	50	0
Newcastle	b	61	45	0·01
Orange ..	b	50	21	0
Bathurst..	b	57	30	0
Mt Victoria	u	48	29	0
Forbes...	b	58	37	0
Bendemeer	..	..	..	..
23 29·90 60 Ea				
SYDNEY	u	58	44	0
Wentw'th	b	65	35	0
Young...	b	55	35	0
Woll'gong	b	64	44	0
Moss Vale	n	52	29	0
Euston...	b	75	31	0
Goulburn.	b	57	28	0
Wagga...	b	60	30	0
Cape Geo.	d	57	..	0·03
Queanb'an	b	58	33	0
Deniliquin	b	59	32	0
Albury...	f	60	31	0
Bodalla ..	b	69	36	0
Cooma...	n	58	28	0
Eden.....	b	62	44	0
Gabo Isld.	c	57	44	0



METEOROLOGICAL REPORTS.—August 21.

South Australia: Weather cloudy at all stations, barometer falling, winds generally light from the N.E., sea rough at Cape Borda, rain at Eucla, 0·76. Victoria: Fine generally, barometers falling, sea smooth, light northerly winds, no rain. New South Wales: Fine generally, showery at Port Macquarie and Clarence River Heads, smooth sea and falling barometers, with moderate variable westerly winds all down coast. Queensland: Cooktown, calm, showery rain, 0·03; Moreton Bay, showery, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, N., 13, fine, sea slight, temperature, 56·: Portland, W., 23, cloudy, sea smooth, temperature 63·; Cape Otway, N.N.W., 8, fine, sea slight, temperature 62·. New South Wales: Wentworth, N., dull, temperature 60·, Deniliquin, calm, fine, temperature 62·; Albury, calm, fine, temperature 60·; Goulburn, calm, fine, temperature 60·; Forbes, calm, fine, temperature 56·; Eden, N.E., 14, fine, sea smooth, temperature 58·; Cape George, N., 28, fine, sea smooth, temperature 60·; Sydney, E.N.E., 8, cloudy, sea smooth, temperature 59·; Newcastle, S. fresh, fine, sea smooth, temperature 71·; Port Macquarie, S.S.W., 28, showery, sea smooth, temperature 60·; Clarence River, S., fine, temperature 63·. State of Rivers: Murrumbidgee—At Hay, 15 feet above summer level; at Balranald, 11 feet 8 inches above summer level. Murray—At Albury, 7 feet 2 inches above summer level; at Euston, 10 feet 2 inches above summer level. Darling—At Wentworth, 13 feet 9 inches above summer level; at Pooncarie, 20 feet 10 inches above summer level; at Menindie, 24 feet 10 inches above summer level; at Wilcannia, 29 feet 10 inches above summer level.

WEATHER MAP.

21 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 21 August.....36·385.

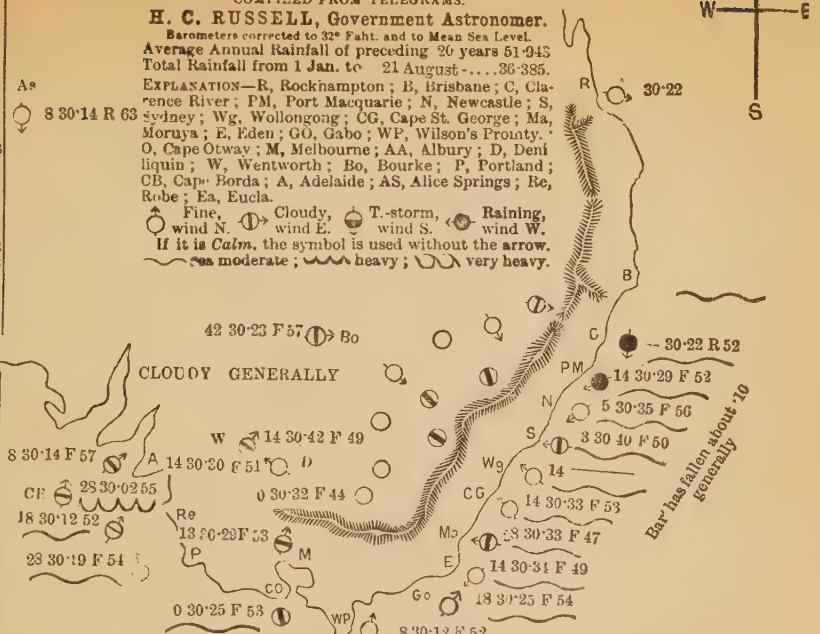
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	Weath.	Max	Min	Rain
Tenterfi'ld	u	65	44	0
Grafton..	b	69	24	0
Inverell..	b	60	39	0
Walgett..	..	..	..	..
Bourke ..	b	67	48	0
Narrabri..	b	63	46	0
Armidale.	u	58	20	0
Gunnedah	b	72	37	0
Coonab'an	b	64	34	0
P. Macqrie	p	63	47	0·28
Murr'undi	f	55	34	0
Cassilis ..	u	59	32	0
Mus'brook	u	66	41	0
Dubbo...	b	60	44	0
Mudgee ..	u	64	40	0
Maitland .	u	59	55	0·22
Newcastle	b	59	51	0·82
Orange ..	c	54	32	0
Bathurst..	u	55	35	0
MtVictoria	u	49	38	0
Forbes...	b	60	40	0
Bendemeer	..	..	..	..
SYDNEY	u	59	47	0·06
Wentw'th	u	69	40	0
Young...	b	60	43	0
Woll'gong	b	59	47	0
Moss Vale	b	53	38	0
Euston...	..	..	..	..
Goulburn.	u	61	31	0
Wagga...	b	64	40	0
Cape Geo.	b	58	..	0
Queanb'an	c	60	39	0
Deniliquin	b	63	42	0
Albury...	b	65	34	0
Bodalla ..	n	68	35	0
Cooma...	b	61	28	0
Eden.....	b	56	43	0
Gabo Isld.	b	66	48	0



METEOROLOGICAL REPORTS.—August 22.

South Australia: Fine, wind light from the W. and N., barometers rising, rough sea at Cape Borda, rain 0·46, ditto at Adelaide 0·05, and Alice Springs 0·28. Victoria: Cloudy generally, with a very smooth sea and light N.E. winds, barometers rising, no rain. New South Wales: Cloudy generally, light variable winds, a smooth sea and falling barometers on coast. See weather map for rain measure. Queensland: Brisbane, fine, wind S.W., barometer rising, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, E.N.E., 13, cloudy, temperature, 65°; Portland, N., 34, cloudy, sea smooth, temperature 61°; Cape Otway, N.E., 8, cloudy, sea moderate, temperature 58°.; Wilson's Promontory, E.N.E., 13, foggy, sea smooth, temperature 58°; New South Wales: Wentworth, N.N.W., fine, temperature [illegible]; Deniliquin, N.E., 14, fine, temperature 62°; Albury, N.W., 14, cloudy, temperature 61°; Goulburn, calm, fine, temperature [illegible]; Bowen, calm, dull, temperature 69°; Eden, N.E., 14, fine, [illegible] sea temperature 60°; Stanmore, N.E., 10, fine, sea smooth, [illegible] 6, dull, sea smooth, temperature [illegible] smooth, temperature [illegible] sea smooth, temperature [illegible] fine, sea smooth, temperature [illegible] fine, sea moderate, temperature [illegible] 10 feet [illegible] above [illegible] summer level [illegible] summer level; at [illegible]

WEATHER MAP.

22 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

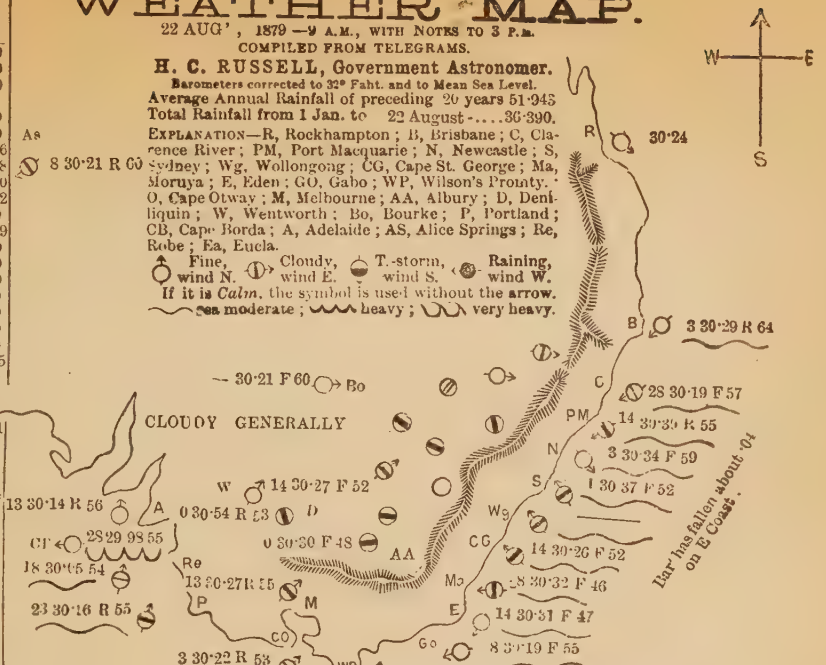
Total Rainfall from 1 Jan. to 22 August-....36·390.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'h'r	Max	Min	Rain
Tenterfi'ld	u	68	45	0
Grafton..	b	68	34	0
Inverell..	b	63	47	0
Walgett..	..	..	..	..
Bourke ..	b	71	46	0
Narrabri..	u	67	51	0
Armidale.	b	57	18	0·06
Gunnedah	c	73	46	0·18
Coonab'an	c	66	43	0·10
P. Macqrie	u	62	51	0·72
Murr'undi	u	59	34	0
Cassilis ..	u	65	33	0·09
Mus'brook	u	67	40	0
Dubbo...	u	63	50	0
Mudgee ..	u	65	48	0
Maitland .	b	60	56	0
Newcastle	b	63	52	0
Orange ..	u	54	35	0
Bathurst..	u	56	37	0
MtVictoria	u	52	41	0·25
Forbes...	b	61	43	0
Bendemeer	..	..	..	..
8 30·25 56 Ea				
SYDNEY	u	61	49	0·01
Wentw'th	b	70	41	0
Young...	u	57	45	0
Woll'gong	c	61	48	0
Moss Vale	c	56	41	0·04
Euston...	u	72	47	0
Goulburn.	f	62	36	0
Wagga ..	b	63	41	0
Cape Geo.	b	61	..	0
Queanb'an	b	60	50	0
Deniliquin	u	66	42	0
Albury...	b	63	38	0
Bodalla ..	n	68	37	0
Cooma...	b	61	28	0
Eden....	b	58	44	0
Gabo Isld.	b	61	50	0

METEOROLOGICAL REPORTS.—August 23.

South Australia; Cloudy generally, with light northerly winds, sea rough at Cape Borda; barometers rising; rain at Adelaide, 0·05 and Cape Borda, 0·07. Victoria: Cloudy and showery, with light northerly winds and a smooth sea, barometers steady; rain at Melbourne, 0·01, and Portland, 0·10. New South Wales: Cloudy generally, sea smooth; barometer falling, with light variable winds and a smooth sea on coast. Queensland: Moderate easterly sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, barometer steady; Portland, W., 28, temperature 56·, threatening rain, sea smooth; Cape Otway, calm, cloudy, temperature 57·, smooth sea; Wilson's Promontory, N.E., 18, temperature 57·, gloomy, sea smooth. New South Wales: Wentworth, W., fine, temperature 67·; Deniliquin, N., cloudy, threatening rain, temperature 50.·; Albury, calm, cloudy, temperature 61·; Goulburn, calm, fine, temperature 62·; Forbes, calm, showery, temperature 55·; Eden, N.E. 14, fine, sea smooth; Moruya, N.E., 20, cloudy, sea moderate; Cape George, N.E., 20, cloudy, sea smooth, temperature 60·; Sydney, barometer steady, N.E., 14, fine, temperature 60·; Newcastle, N.E., 20, cloudy, sea smooth, temperature 66·; Port Macquarie, N., 14, cloudy, showery, sea smooth, temperature 62. State of Rivers: Murrumbidgee—At Hay, 14 feet 1 inch above summer level; at Balranald, 11 feet 11 inches above summer level. Murray—At Euston, 10 feet 3 inches above summer level. Darling—At Wenthworth, 13 feet 9 inches above summer level; at Pooncarie, 20 feet 11 inches above summer level; at Menindi, 24 feet 11 inches above summer level; at Wilcannia, 30 feet above summer level.

WEATHER MAP.

23 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 23 August.....36·459.

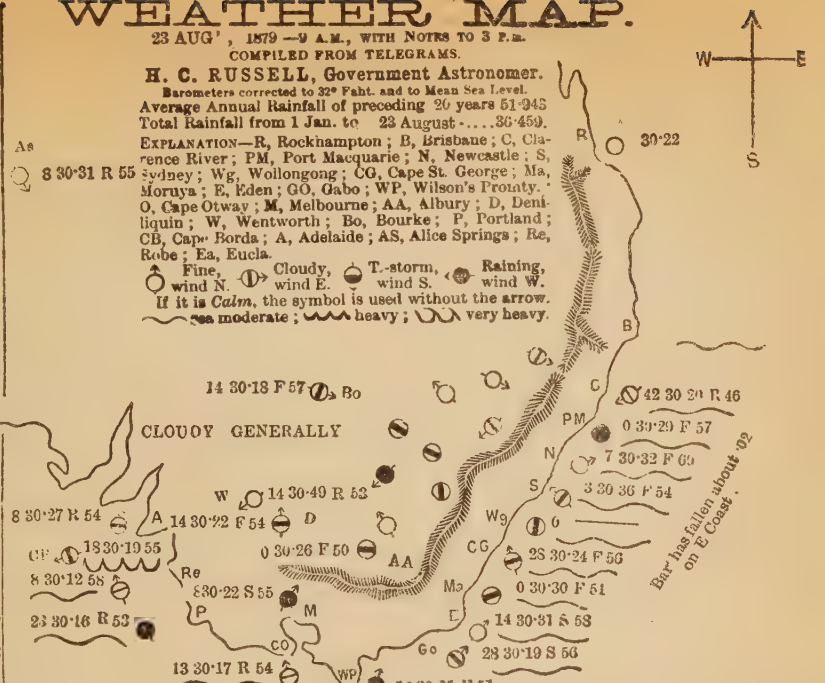
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	g	64	40	0
Grafton..	g	71	46	0·22
Inverell..	b	65	47	0
Walgett..	..	..	..	..
Bourke ..	c	78	54	0
Narrabri..	b	70	51	0
Armidale.	c	64	31	0
Gunnedah	u	71	35	0
Coonab'an	c	63	45	0
P. Macqrie	p	66	50	0·18
Murr'undi	f	64	43	0
Cassilis ..	g	64	34	0
Mus'brook	u	72	51	0
Dubbo...	c	64	50	0
Mudgee ..	g	70	49	0
Maitland .	b	66	56	0
Newcastle	b	65	56	0
Orange ..	c	56	32	0·03
Bathurst..	g	58	39	0
MtVictoria	p	54	41	0·20
Forbes...	c	62	44	0
Bendemeer	..	..	..	.
SYDNEY	c	62	50	0·07
Wentw'th	b	74	44	0
Young...	r	61	49	0
Woll'gong	b	62	50	0
Moss Vale	b	57	48	0·22
Euston...	b	74	41	0
Goulburn.	b	62	42	0
Wagga ..	g	60	49	0
Cape Geo.	c	61	..	0·18
Queanb'an	b	64	46	0
Deniliquin	g	61	42	0
Albury...	u	69	42	0·10
Bodalla ..	b	68	44	0
Cooma...	b	63	37	0·02
Eden.....	b	58	52	0
Gabo Isld.	c	65	4	0



METEOROLOGICAL REPORTS.—August 25.

South Australia: Cloudy with light northerly winds, sea smooth, barometers falling; rain at Eucla, 0·03. Victoria: Fine, with moderate N. and N.E. winds, sea smooth, barometers falling; rain at Melbourne, 0·12, and Portland, 0·16. New South Wales: Cloudy, sea smooth on coast, with light variable winds and calms, showery up near Port Macquarie and the Clarence, barometers falling generally. See weather map for rain measurements. Queensland: Rockhampton, wind E., rain 0·07; Cooktown, squally from S.E.; Brisbane, showery, with considerable swell and light E. wind. 3 p.m. Observations.—Victoria: Melbourne, E. 13, cloudy, temperature 62°; Portland, S.W., 18, cloudy, temperature 62°, sea smooth; Cape Otway, E., 3, cloudy, temperature 60°, moderate sea; Wilson's Promontory, N.E., 13, cloudy, temperature 56°. New South Wales: Wentworth, N., dull, temperature 76°; Deniliquin, N.E., 14, fine, temperature 64°; Albury, S.S.W., light, showery, temperature 64°; Goulburn, calm, fine, temperature 61°; Forbes, calm, dull, temperature 58°; Eden, N.E., 14, cloudy, sea light, temperature 59°; Moruya, S.E., 42, fine, sea smooth, temperature 64°; Sydney, N.E., 14, dull, sea smooth, temperature 62°; Newcastle, N.E., fresh, dull, sea smooth, temperature 66°; Port Macquarie, calm, showery, sea heavy, temperature 62°; Clarence River, E., raining, sea heavy, temperature 62°. State of Rivers: Murrumbidgee—At Wagga, 9 feet 6 inches above summer level; at Hay, 14 feet above summer level; at Balranald, 12 feet 1 inch above summer level. Murray—At Albury, 6 feet 6 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling—At Wenthworth, 13 feet 9 inches above summer level; at Pooncarie, 21 feet above summer level; at Menindi, 25 feet above summer level; at Wilcannia, 28 feet 11 inches above summer level.

WEATHER MAP.

25 AUG'T, 1879 —9 A.M., WITH NOTES TO 3 P.M.
COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

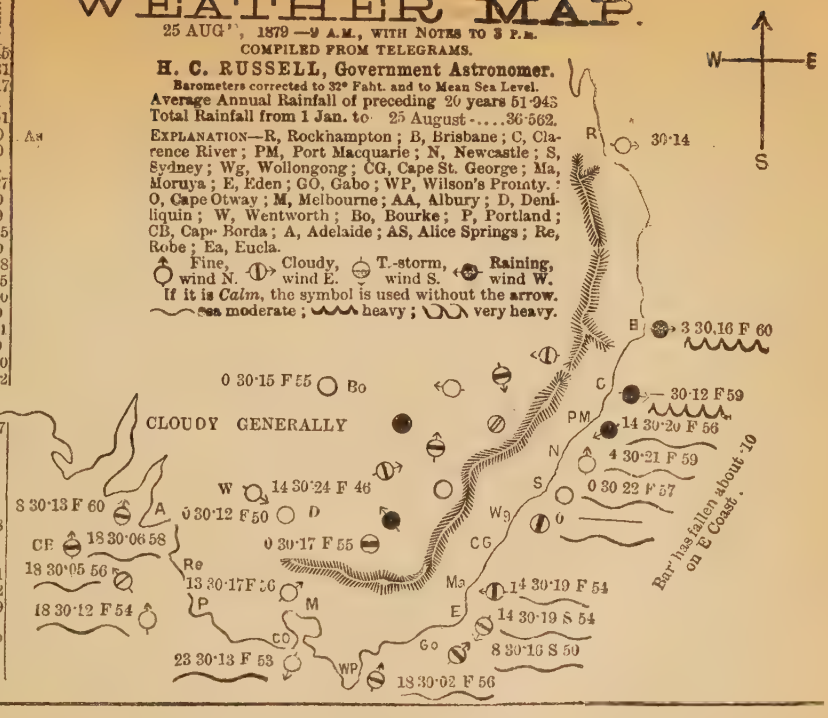
Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943
Total Rainfall from 1 Jan. to 25 August.....36·562.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	61	40	0·45
Grafton..	u	61	40	0·81
Inverell..	u	65	50	0·17
Walgett..	..	..	..	..
Bourke ..	b	70	47	0·01
Narra'ri..	b	66	38	0
Armidale.	p	65	30	0
Gunnedah	.	..	..	..
Coonab'an	b	63	41	0·27
P. Macqrie	p	64	55	0
Murr'undi	b	61	46	0
Cassilis ..	f	62	33	0·05
Mus'brook	u	66	46	0
Dubbo...	b	64	53	0·78
Mudgee ..	u	62	48	0·25
Maitland .	f	68	58	0·30
Newcastle	b	69	55	0
Orange ..	b	57	36	0·11
Bathurst..	u	61	40	0
MtVictoria	c	56	..	0·40
Forbes...	p	59	41	0·42
Bendemeer	..	..	..	..
13 30·20	60	Ea		
SYDNEY	b	64	54	0·07
Wentw'th	b	71	37	0
Young...	u	61	51	0
Woll'gong	c	64	49	0
Moss Vale	u	57	45	0
Euston...	b	82	37	0
Goulburn.	u	59	41	0·18
Wagga...	u	64	48	0
Cape Geo.	..	..	..	.
Queanb'an	b	62	48	0·31
Deniliquin	b	70	41	0·02
Albury...	u	68	49	0·79
Bodalla ..	b	76	49	0
Cooma...	p	64	42	0·20
Eden.....	b	60	51	0
Gabo Isld.	c	61	49	0



METEOROLOGICAL REPORTS.—AUGUST 26.

South Australia : Fine weather generally, with moderate S.E. winds and a falling barometer, sea smooth ; rain at Cape Borda, 0·11. Victoria: Cloudy weather generally, with light variable winds and smooth sea, barometer rising ; rain at Melbourne, 0·21, and Wilson's Promontory, 0·02. New South Wales : Cloudy and dull, heavy sea north of Port Macquarie ; barometer falling on coast, with light varying winds and calm ; light rain has fallen generally ; see weather map. Queensland : Cooktown, fine, with strong S. squalls ; Brisbane, overcast and sultry, sea moderate, bar rising. 3 p.m. Observations.—Victoria : Melbourne, S., 13, dense fog, temperature 51· ; Portland, S.S.E., 18, overcast, sea smooth, temperature 56· ; Cape Otway, S.E., 3, cloudy, sea slight temperature 56· ; Wilson's Promontory, S.W., 8, dull, sea smooth, temperature 54· New South Wales : Wentworth, S.E., fine, temperature 67· ; Deniliquin, N.N.E., 14, fine, temperature 64· ; Albury, calm, cloudy, sea smooth, temperature 65· ; Goulburn, calm, dull, temperature 62· ; Forbes, calm, dull, temperature 56· ; Eden, E.N.E., 14, fine, light, temperature 63· ; Moruya, N.E., 42, fine, sea smooth, temperature 60· ; Sydney, E.N.E, 8, cloudy, sea smooth, temperature 61· ; Port Macquarie, N.E., 28, dull, heavy sea, temperature 66· ; Clarence River, S.E., fine, heavy sea, temperature 66·. State of Rivers : Murrumbidgee—At Wagga, 9 feet 3 inches above summer level ; at Hay, 14 feet 10 inches above summer level ; at Balranald, 12 feet 1 inch above summer level. Murray —At Albury, 6 feet 8 inches above summer level ; at Euston, 10 feet 4 inches above summer level. Darling—At Wentworth, 13 feet 9 inches above summer level ; at Pooncarie, 21 feet above summer level ; at Menindie, 25 feet above summer level ; at Wilcannia, 28 feet 10 inches above summer level.

WEATHER MAP.

26 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 26 August - . . . . 36·570.

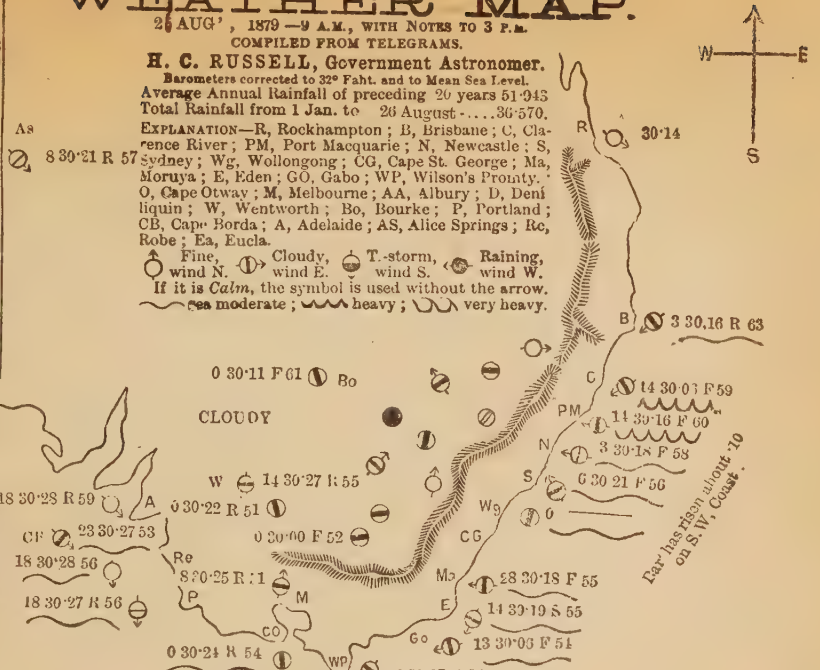
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	67	49	0·08
Grafton..	c	66	45	0·50
Inverell..	u	64	50	0
Walgett..	..	..	..	..
Bourke ..	b	73	55	0
Narrabri..	u	70	47	0
Armidale.	b	62	32	0·06
Gunnedah	u	75	43	0·05
Coonab'an	c	68	42	0
P. Macqrie	u	62	56	0·52
Murr'undi	f	59	46	0·37
Cassilis ..	u	67	32	0·04
Mus'brook	u	74	53	0
Dubbo...	u	65	53	0
Mudgee ..	u	77	49	0
Maitland.	u	68	61	0·08
Newcastle	u	65	55	0·06
Orange ..	u	61	37	0·26
Bathurst..	u	66	43	0
MtVictoria	c	59	39	0·41
Forbes...	p	60	48	0·21
Bendemeer	..	..	..	..
SYDNEY	u	63	53	0·01
Wentw'th	u	76	42	0
Young...	u	63	49	0
Woll'gong	c	64	51	0
Moss Vale	f	60	45	0
Euston...	u	80	41	0·07
Goulburn.	u	63	45	0·29
Wagga ..	u	68	45	0·10
Cape Geo.	...	...	...	.
Queanb'an	b	64	44	0·63
Deniliquin	b	69	42	0
Albury...	u	68	49	0·04
Bodalla ..	u	68	56	0
Cooma...	f	63	36	0
Eden.....	f	60	52	0
Gabo Isld.	f	61	56	0



METEOROLOGICAL REPORTS.—August 27.

South Australia: Beautifully fine, clear weather throughout, with steady barometers and a smooth sea. Victoria: Fine generally, sea smooth, wind light from the S. generally, barometers steady, no rain. New South Wales: Cloudy generally, heavy sea N. of Newcastle, barometer rising on coast with light S.W. wind—see map for rain measurements. Queensland: Rather rough sea at Brisbane Heads. 3 p.m. Observations.—Victoria: Melbourne, S.W., 18, fine, barometer steady, temperature 57°; Portland, N.W., 18, fine, sea smooth, temperature 59°; Cape Otway, E., 18, cloudy, sea rough, temperature 55°: Wilson's Promontory, N.N.E., 18, passing showers, moderate sea, temperature 63°. New South Wales: Wentworth, E., fine, temperature 68°; Deniliquin, S.E., 14, fine, temperature 66°; Albury, calm, fine, temperature 64°; Goulburn, E.N.E., dull, temperature 61°; Forbes, calm, cloudy, temperature 57°; Eden, S.S.E., 14, fine, sea light, temperature 63°; Moruya, S.E., 28, fine, sea moderate, temperature 60°; Cape George, S., 28, showery, sea smooth, temperature 56°; Sydney, S.S.E., 20, dull, sea little, temperature 59°; Newcastle, S.S.W., dull, sea smooth, temperature 66°; Port Macquarie, calm, raining, sea heavy, temperature 64°. State of Rivers: Murrumbidgee—At Wagga, 11 feet 5 inches above summer level; at Hay, 14 feet 1 inch above summer level; at Balranald, 12 feet 1 inch above summer level. Murray—At Albury, 6 feet 4 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling—At Wentworth, 13 feet 9 inches above summer level; at Pooncarie, 21 feet above summer level; at Menindie, 25 feet 1 inch above summer level; at Wilcannia, 28 feet 10 inches above summer level.

WEATHER MAP.

27 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

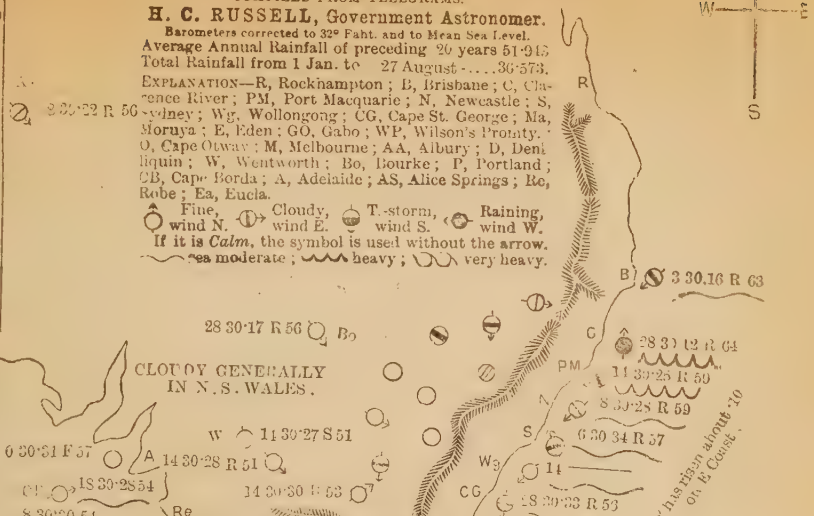
Total Rainfall from 1 Jan. to 27 August .....36·573.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Tenterfield	u	65	53	0
Grafton..	u	76	47	0·50
Inverell..	u	69	48	0
Walgett..	..	..	..	..
Bourke ..	b	78	49	0
Narrabri..	c	65	33	0
Armidale.	..	..	..	..
Gunnedah	c	76	43	0
Coonab'an	u	68	40	0
P. Macqrie	f	68	56	0·08
Murr'undi	u	67	53	0
Cassilis ..	d	60	52	0·06
Mus'brook	u	55	49	0
Dubbo...	u	63	51	0
Mudgee ..	u	65	48	0
Maitland .	u	64	58	0
Newcastle	u	66	52	0
Orange ..	u	60	35	0
Bathurst..	b	62	38	0
MtVictoria	u	60	41	0·08
Forbes...	b	59	49	0·19
Bendemeer	f	63	..	0
	Pa			
SYDNEY	u	65	54	0
Wentw'th	b	70	42	0
Young...	b	69	49	0·12
Woll'gong	c	64	42	0
Moss Vale	r	61	48	0·09
Euston...	b	70	43	0
Goulburn.	u	65	38	0·03
Wagga ..	b	67	44	0
Cape Geo.	c	61	..	0·07
Queanb'an	b	63	44	0
Deniliquin	b	67	42	0
Albury...	b	67	41	0
Bodalla ..	u	73	51	0
Cooma...	u	65	39	0·06
Eden....	..	..	..	..
Gabo Isld.	u	64	52	0

METEOROLOGICAL REPORTS.—AUGUST 28.

South Australia: Fine clear weather, with falling barometers throughout; sea smooth, wind light from the N.; rain at Eucla, 0·02. Victoria: Fine at all stations except Wilson's Promontory, sea smooth, barometers falling; wind light from N.E. New South Wales: Cloudy and showery throughout, except down S.W., at Wentworth, Euston, &c.; barometers falling; fresh variable winds on coast; sea heavy N. of Newcastle; see weather map for rain measurements. 3 p.m. Observations.—Victoria: Melbourne, N., 13, fine, temperature 71·; Portland, N., 23, fine, sea smooth, temperature 65·; Cape Otway, E.N.E., 13, cloudy, sea moderate, temperature 61·; Wilson's Promontory, E.N.E., 23, overcast, sea slight, temperature 55·; New South Wales: Wentworth, E., cloudy, temperature 72·; Deniliquin, N.E., 14, dull, temperature 65·; Albury, E., light, cloudy, temperature 63·; Goulburn, calm, raining, temperature 59·; Eden, N.E., 14, showery, sea moderate, temperature ·59; Moruya, N.E., 28, dull, sea moderate, temperature 59·; Cape St. George, N., showery little sea, 60·; Sydney, N.E., 8, raining, sea smooth, 59· Barometer falling fast all day up to 8 p m., had fallen 0.25 inch, with steady rain, sea increasing on the coast; Newcastle, N.E., raining, sea moderate, temperature 62·; Clarence River, E.N.E., 42, raining, sea increasing, temperature 64· State of Rivers: Murrumbidgee—at Hay, 14 feet above summer level; at Balranald, 12 feet 2 inches above summer level. Murray—At Albury, 6 feet 4 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling—At Wentworth, 13 feet 9 inches above summer level; at Pooncarie, 21 feet above summer level; at Menindie, 25 feet 1 inch above summer level; at Wilcannia, 28 feet 10 inches above summer level.

WEATHER MAP.

28 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 28 August - . . . . 38·552.

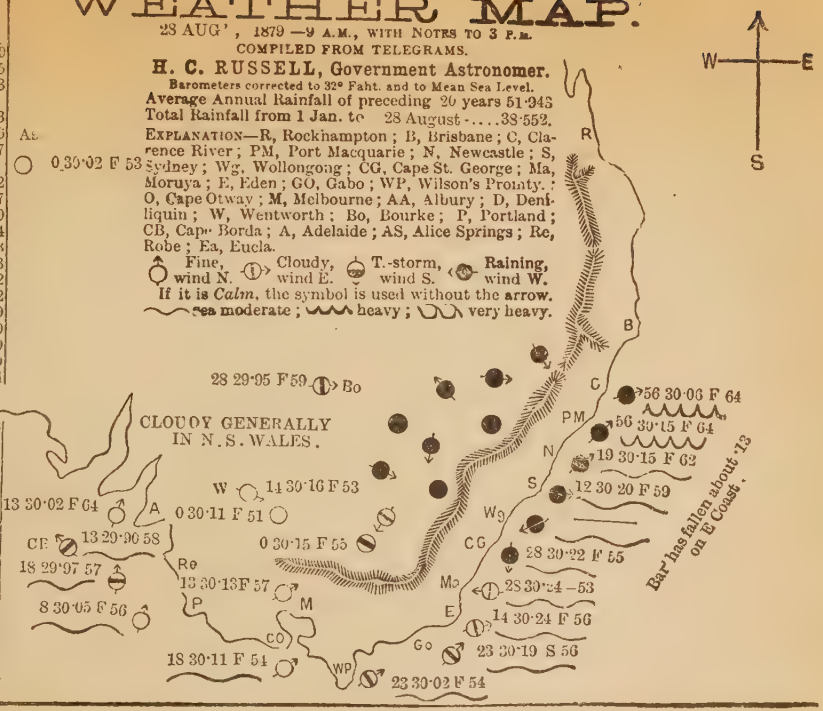
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wind	Max	Min	Rain
Tenterfield	r	57	44	1·00
Grafton..	r	65	47	1·65
Inverell..	r	69	47	0·33
Walgett..	..	..	..	..
Bourke ..	c	75	57	0·13
Narrabri..	p	68	33	0·36
Armidale.	r	62	38	0·57
Gunnedah	r	76	58	0
Coonabarabran	r	65	51	0·42
P. Macqrie	r	65	60	0·47
Murrumbidgee	u	51	44	0·30
Cassilis ..	d	57	36	0·54
Mus'brook	u	68	55	0·43
Dubbo...	r	65	54	0·53
Mudgee ..	r	63	53	0·72
Maitland .	r	68	52	0·32
Newcastle	p	65	54	0·19
Orange ..	r	60	39	0·90
Bathurst..	r	64	47	0·70
MtVictoria	r	56	45	1·50
Forbes...	p	58	47	0·34
Bendemeer	...	..	..	..
SYDNEY	r	61	57	1·98
Wentw'th	b	73	43	0
Young...	r	65	3	0·22
Woll'gong	r	62	55	1·19
Moss Vale	..	..	..	..
Euston...	b	79	39	0
Goulburn.	r	63	48	0·40
Wagga...	u	68	53	0
Cape Geo.	r	56	..	0·17
Queanb'an	r	57	49	0·07
Deniliquin	b	70	45	0
Albury...	u	71	47	0
Bodalla ..	r	64	46	0·09
Cooma...	c	64	42	0
Eden.....	u	63	53	0
Gabo Isld.	u	61	53	0



METEOROLOGICAL REPORTS.—AUGUST 29.

South Australia: Cloudy generally, the clouds are light and broken, and the sea smooth; barometers rising; no rain. Victoria: Cloudy weather, with rising barometers and smooth sea; wind light from S. and S.W. New South Wales: Cloudy and raining generally; fine down S.W., near Wentworth; sea moderate at South Head, but heavy at all the other coast stations from which reports have been received. Weather appears to be clearing somewhat N. of Newcastle, but heavy rains are falling down S. at Cape St. George and Moruya. (See map for rain measurements). Fresh N.E. winds and falling barometers on coast. Queensland: Brisbane, barometer 30.00, N., 3, fine, clear, rain 0·64; Cape Moreton, heavy swell from N.E. 3 p.m. Observations. —Victoria: Melbourne, S., 13, cloudy, barometer 29.95; Portland, S.S.W., 23, cloudy, sea smooth, temperature 56.0°; Cape Otway, S.S.W., 8, cloudy, moderate sea, temperature 54°; Wilson's Promontory, W., 23, dense fog, so dense cannot see the sea; New South Wales: Wentworth, W., fine, temperature 72°; Deniliquin, calm, fine, temperature 67°; Albury, calm, showery, temperature 66°; Goulburn, calm, showery, temperature 62°; Forbes, calm, dull, temperature 59°; Eden, E., 14, raining, heavy sea, temperature 61°; Cape George, N.E., 42, showery, heavy sea, temperature 62°; Sydney, N.E., 8, cloudy, moderate sea, temperature 64°; Newcastle, N.E., light, dull, little sea, temperature 74°; Port Macquarie, N.E., 15, cloudy, heavy N.E. sea, temperature 67°; Cooma, W., 56, dull, temperature 50°. State of Rivers: Murrumbidgee—At Wagga, 10 feet above summer level; at Hay, 14 feet above summer level; at Balranald, 12 feet 2 inches above summer level. Murray—At Euston, 10 feet 5 inches above summer level. Darling—At Wentworth, 13 feet 9 inches above summer level; at Pooncarie, 21 feet 1 inch above summer level; at Menindie, 25 feet 2 inches above summer level; at Wilcannia, 28 feet 11 inches above summer level.

WEATHER MAP.

29 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 29 August-....40·652.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	61	54	2·00
Grafton..	b	66	44	1·98
Inverell..	r	66	55	0·93
Walgett..	..	..	..	..
Bourke ..	m	68	56	0·60
Narrabri..	p	68	44	1·00
Armidale.	..	..	..	..
Gunnedah	u	61	51	0·86
Coonab'an	d	62	54	0·82
P. Macqrie	..	..	..	..
Murr'undi	u	62	55	0·95
Cassilis ..	u	69	37	1·22
Mus'brook	b	67	56	0·51
Dubbo...	p	63	55	0·96
Mudgee ..	u	60	56	0·57
Maitland .	b	64	53	0·80
Newcastle	u	65	59	0·25
Orange ..	r	60	41	1·65
Bathurst..	r	57	52	0·96
MtVictoria	p	53	46	2·02
Forbes...	r	55	45	0·45
Bendemeer	..	..	..	..
SYDNEY	u	63	59	2·10
Wentw'th	c	77	42	0
Young...	u	58	54	0·80
Woll'gong	c	65	57	1·77
Moss Vale	r	56	50	1·18
Euston...	u	87	43	0
Goulburn.	r	56	49	0·64
Wagga...	u	63	53	0·72
Cape Geo.	p	61	..	2·61
Queanb'an	..	..	..	..
Deniliquin	u	68	47	0
Albury...	u	69	57	0·45
Bodalla ..	r	63	51	2·90
Cooma...	c	56	54	0·55
Eden.....	..	..	..	..
Gabo Isld.	..	..	..	..

METEOROLOGICAL REPORT [illegible]

South Australia: Reports dull, gloo[illegible] barometers, smooth sea and light E. and N.E. winds, [illegible] laide, 0·06; Cape Borda, 0·13; and Eucla, [illegible] weather without rain, barometers rising, [illegible] S.W. winds prevail. New South Wales: Fine [illegible] clearing, with rising barometers and [illegible] calms, still dull and gloomy with he[illegible] Heads and Port Macquarie, but the sea is [illegible] going down at all S. stations. 3 p.m. [illegible]—[illegible]. Generally cloudy; Portland, E.S.E., [illegible], cloudy, [illegible]; Cape Otway, S., 3, cloudy, 55·, [illegible]; Wilson's Promontory, W., 23, cloudy, 53·, sea moderate. New South Wales: Wentworth, N.W., fine, [illegible]; Deniliquin, calm, fine, 68·; Goulburn, W., fine, [illegible]; Forbes, W., cloudy, 62·; Eden, S.W., 14, cloudy, [illegible], heavy sea [illegible]; Moruya, S.E., 20, cloudy, temperature 61·, heavy sea. Sydney, S., 14, fine, temperature 61·, barometer steady; Port Macquarie, cloudy, temperature 74·, heavy sea; Cape George, no report; Newcastle, S, 10, little sea, temperature [illegible]; Clarence River, W., 1, heavy sea from N.E., temperature [illegible]. State of Rivers: Murrumbidgee—At Wagga, 10 feet 6 inches above summer level; at Hay, 15 feet above summer level; at Balranald, 12 feet 3 inches above summer level. Murray—At Albury, 7 feet 3 inches above summer level; at Euston, 10 feet 5 inches above summer level. Darling—At Wentworth, 13 feet 10 inches above summer level; at Pooncarie, 21 feet 1 inch above summer level; at Menindie, 25 feet 2 inches above summer level; at Wilcannia, 28 feet 11 inches above summer level.

WEATHER MAP.

30 AUG', 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·043

Total Rainfall from 1 Jan. to 30 August-....40·794.

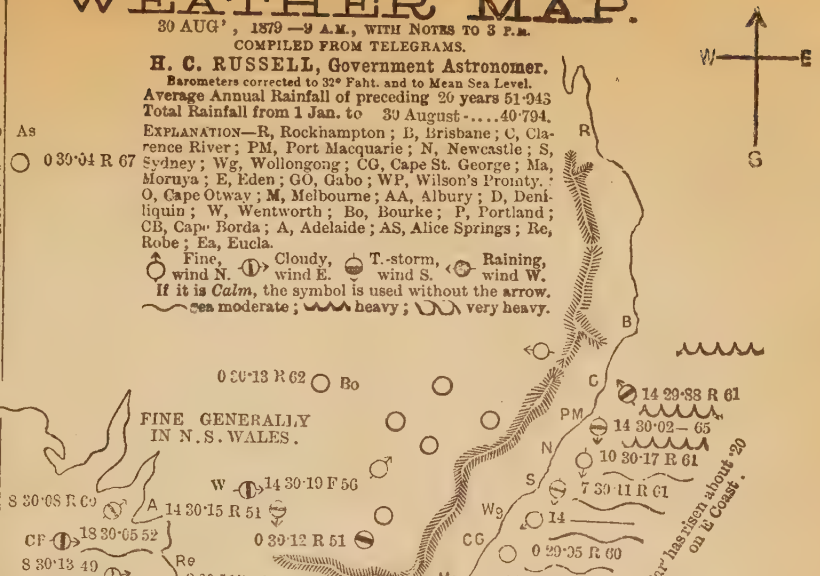
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	64	46	0
Grafton..	b	80	45	0
Inverell..	..	..	..	..
Walgett..	..	..	..	..
Bourke ..	b	73	50	0
Narrabri..	b	66	43	0·10
Armidale.	u	50	36	0
Gunnedah	f	69	49	0·24
Coonab'an	b	67	44	0·11
P. Macqrie	g	68	58	0
Murr'undi	f	62	51	0·23
Cassilis ..	b	70	35	0·16
Mus'brook	b	74	53	0
Dubbo...	f	66	56	0·11
Mudgee ..	f	58	49	0·05
Maitland .	b	72	62	0
Newcastle	b	68	51	0
Orange ..	b	58	35	0.57
Bathurst..	f	58	42	0·24
MtVictoria	b	60	40	0·10
Forbes...	b	62	46	0·21
Bendemeer	..	..	..	..
SYDNEY	b	67	55	0·14
Wentw'th	c	77	47	0
Young...	b	61	45	0·07
Woll'gong	b	66	55	0·06
Moss Vale	.	..	..	..
Euston...	b	91	47	0
Goulburn.	b	61	42	0·12
Wagga...	c	63	46	0
Cape Geo.	b	62	..	0·84
Queanb'an	.	..	..	..
Deniliquin	c	71	39	0
Albury...	u	66	41	0·04
Bodalla ..	fp	69	50	0·26
Cooma...	..	..	..	..
Eden....	..	..	..	..
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 1.

South Australia reports: Dull threatening weather generally; light rain at Adelaide, measured 0·06; wind fresh from N. and W.; sea rough at Cape Borna: barometers falling. Victoria: Weather dull and gloomy generally; showery at Portland; sea rather rough at Wilson's Promontory; light N.E. winds and falling barometers; rain at Cape Otway, 0·06, and Portland, 0·37. New South Wales: Fine generally, with rising barometers, and light variable winds and calms (see weather map for direction and force); heavy sea south of Cape St. George; dull and rain down in extreme S.W. corner of the colony, at Wentworth, Euston, and Deniliquin. Queensland: Cape Moreton, sea moderate. 3 p.m. Observations. — Victoria: Melbourne, barometer steady, N. 8, showery, temperature 55°; Portland, N.E., 28, showery, temperature 61°, sea smooth; Cape Otway, N.N.E., 8, threatening rain, temperature 58°, sea smooth; Wilson's Promontory, N.N.E., 23, threatening in west, temperature 55°, moderate sea. New South Wales: Wentworth, N., cloudy, temperature 67°; Deniliquin, N., 14, raining, temperature 62°; Albury, calm, showery; Goulburn, N.W., fine, temperature 65°; Forbes, calm, fine, temperature 62°; Eden, E., 28, fine, slight sea, temperature 58°; Moruya, N.E., 42, fine, heavy sea, temperature 60°; Sydney, E.N.E., cloudy, temperature 61°; Newcastle, E.N.E., fine, smooth sea, temperature 77°; Port Macquarie, N.E., 14, fine, moderate sea, temperature 67°; Clarence River, S.E., fine, moderate sea, temperature, 70°. State of Rivers: Murrumbidgee—At Wagga, 2 feet 3 inches above summer level; at Hay, 15 feet 3 inches above summer level; at Balranald, 12 feet 3 inches above summer level. Murray—At Albury, 8 feet above summer level; at Euston, 10 feet 5 inches above summerl evel. Darling—At Wentworth, 14 feet above summer level; at Pooncarie, 21 feet 2 inches above summer level; at Menindie, 25 feet 2 inches above summer level; at Wilcannia, 29 feet 3 inches above summer level.

WEATHER MAP.

1 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 1 September..40·794.

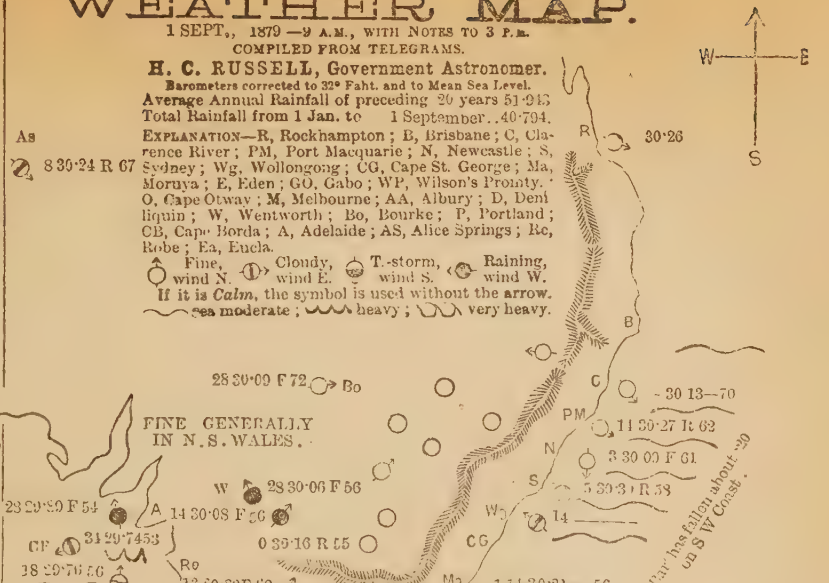
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weth'r	Max	Min	Rain
Tenterfi'ld	b	68	49	0
Grafton..	..	..	..	..
Inverell..	b	68	44	0
Walgett..	..	..	..	..
Bourke ..	b	82	31	0
Narra'ri..	b	74	51	0
Armidale.	b	70	46	0
Gunnedah	..	..	..	..
Coonabar	b	79	38	0
P. Macqrie	b	68	53	0
Murr'umdi	b	64	48	0
Cassilis ..	c	74	39	0
Mus'brook	u	75	46	0
Dubbo...	b	69	43	0
Mudgee ..	u	75	52	0
Maitland .	b	71	61	0
Newcastle	b	65	54	0
Orange ..	b	64	39	0
Bathurst..	b	71	38	0
Mt Victoria	b	61	38	0
Forbes...	b	62	49	0
Bendemeer.	..	..	..	..
SYDNEY	b	62	53	0
Wentw'th	b	81	55	0·50
Young...	b	71	45	0
Woll'gong	c	64	50	0
Moss Vale	u	60	46	0
Euston...	r	88	51	0·25
Goulburn.	b	68	48	0
Wagga...	b	74	45	0
Cape Geo.	.	..	..	..
Queanb'an	c	67	44	0
Deniliquin	r	76	45	0
Albury...	b	73	42	0
Bodalla ..	b	68	51	0
Cooma...	c	68	42	0
Eden.....	b	62	47	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 2.

South Australia: Cloudy weather, winds very variable, sea smooth, bar rising; rain at Adelaide, 0·12; Cape Borda, 0·08; and Robe, 0·17. Victoria: Cloudy, raining at Portland and Cape Otway, sea rather rough, with strong N. W. squalls at Wilson's Promontory; bars rising; rain—at Cape Otway, 0.10; Wilson's Promontory, 0.24; and Portland, 0·26. New South Wales: Cloudy generally, very smooth sea all down coast, with light N.W. winds and falling barometers. Raining in W. at Mudgee and Dubbo (see map). Queensland: Rockhampton, fine; Cooktown, squally from the E. Rain, 0·01. 3 p.m. Observations.—Victoria: Cape Otway, W.N.W., 26, misty, 55°; Portland: W., 10, squally, 56°, sea smooth; Melbourne, N., 18, barometer, 30·21; Wilson's Promontory, W., 28, showery, squally, 53°, rough sea. New South Wales: Wentworth, W., fine, temperature 6[illegible]; Deniliquin, W., fine, temperature 62°; Goulburn calm, fine, temperature 63°; Forbes, S.W., 11, fine, temperature 61°; Eden, E.N.E., 11, fine, temperature 63; Murray, S.E., 12, [illegible], moderate, temperature 67°; Cape George, W., 28, fine, sea smooth, temperature [illegible]; Sydney, W.N.W., 11, fine, temperature 7[illegible]. Newcastle, N.W., 11, fine, sea smooth, temperature 72°; Port Macquarie, N.E., 23, fine, smooth, temperature, 69°.; Clarence River, sea moderate, 70°. State of Rivers: Murrumbidgee.—At Wagga, 2 feet 3 inches above summer level; at Hay, 15 feet 1 inches above summer level; at Balranald, 12 feet 5 inches above summer level. Murray—At Albury, 9 feet 6 inches above summer level: at Euston, 10 feet 5 inches above summer level. Darling—At Wentworth, 14 feet 1 inch above summer level; at Pooncarie, 21 feet 2 inches above summer level; at Menindie, 25 feet 3 inches above summer level; at Wilcannia, 29 feet 2 inches above summer level.

WEATHER MAP.

2 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 2 September..40·810.

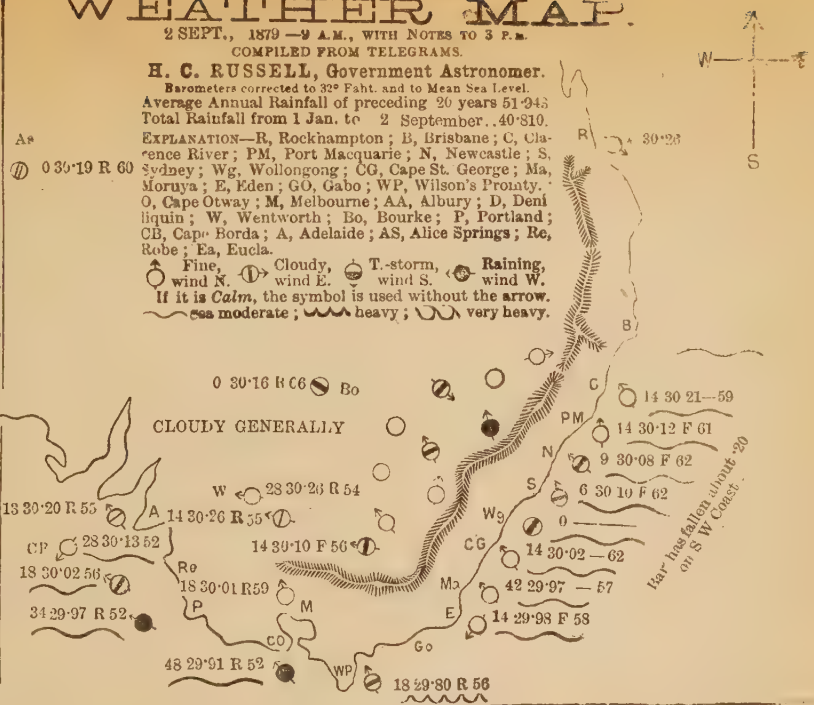
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	64	41	0
Grafton..	u	77	39	0
Inverell..	b	69	47	0
Walgett..	..	..	..	..
Bourke ..	g	64	56	0.20
Narrabri..	u	74	61	0
Armidale.	b	74	38	0
Gunnedah	g	83	49	0
Coonab'an	u	75	55	0·21
P. Macqrie	b	68	55	0
Murr'undi	u	67	47	0
Cassilis ..	b	72	42	0·20
Mus'brook	b	77	49	0
Dubbo...	p	71	58	1·31
Mudgee ..	r	75	56	0·43
Maitland .	g	68	62	0
Newcastle	g	69	54	0
Orange ..	g	64	35	1·35
Bathurst..	u	66	47	0·33
MtVictoria	g	64	47	0·05
Forbes...	b	61	49	0·34
Bendemeer	..	..	..	..
		Ea		
SYDNEY	c	65	57	0·02
Wentw'th	b	67	47	0·01
Young...	c	69	52	0·61
Woll'gong	c	65	56	0
Moss Vale	b	62	49	0·06
Euston...	g	64	47	0
Goulburn.	u	72	52	0
Wagga...	u	73	53	0·46
Cape Geo.	b	61	..	0
Queanb'an	b	69	49	0·46
Deniliquin	g	61	48	0·44
Albury...	u	70	46	0·40
Bodalla ..	b	67	48	0·04
Cooma...	b	67	41	0·21
Eden.....	b	59	54	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 3.

South Australia: Reports cloudy generally, but without rain. Fine at Adelaide and Eucla, sea slight, barometers rising, wind, light but very variable; rain at Adelaide, 0·03; Cape Borda, 0·04; Robe, 0·01; and Alice Springs, 0·20. Victoria: Cloudy, raining at Wilson's Promontory and Portland, wind moderate from the west, barometers rising, rough sea at Wilson's and Cape Otway; rain at Wilson's, 0.68; and Portland, 0·14. New South Wales: Cloudy generally at N.W. and West stations, fine generally down S.W. and S., sea smooth, wind light from the W. and barometers rising; showery at Narrabri and Gunnedah; for measures see map. Queensland: Cooktown reports strong S.E. squalls. 3 p.m. Observations. Victoria: Melbourne, S.S.W., 13, gloomy, temperature 62°; Portland, S., 18, cloudy, sea smooth, temperature 55°; Cape Otway, S., 8, showery, sea moderate, temperature 50°; Wilson's Promontory, W., 18, light rain, sea smooth, temperature 52°; New South Wales: Wentworth, W., fine, temperature 66°; Deniliquin, S.W., 14, cloudy, temperature 62°; Albury, calm, dull, temperature 60°; Goulburn, calm, dull, temperature 60°; Forbes, calm, like rain, temperature 62°; Eden, E., 14, fine, sea light, temperature 55°; Moruya, S.E., 12, fine, sea smooth, temperature 63°; Cape George, S., 11, fine, sea smooth, temperature 63°; Sydney, S.S.E., 8, cloudy, sea smooth, temperature 63; Newcastle, S.E., 8, raining, sea smooth, temperature 69°; Port Macquarie, S., 20, unsettled, sea smooth, temperature 68°; Clarence River, N.E., 14, sea smooth, temperature 70°. State of Rivers: Murrumbidgee—At Wagga, 2 feet 11 inches above summer level; at Hay, 15 feet 4 inches above summer level; at Balranald, 12 feet 5 inches above summer level. Murray—At Albury, 8 feet 10 inches above summer level; at Euston, 10 feet 6 inches above summer level. Darling—At Wentworth, 14 feet 2 inches above summer level; at Pooncarie, 21 feet 2 inches above summer level; at Menindie, 25 feet 3 inches above summer level; at Wilcannia, feet 1 inch above summer level.

WEATHER MAP.

3 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 3 September..40·810.

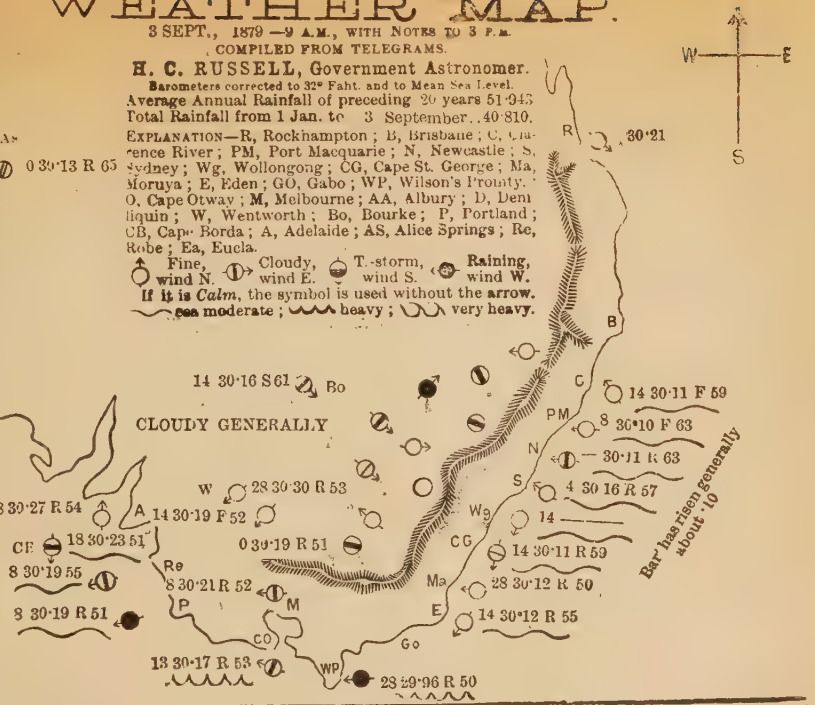
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	69	47	0
Grafton..	b	80	42	0
Inverell..	g	69	55	0
Walgett..	..	..	..	.
Bourke ..	b	76	47	0
Narrabri..	p	72	60	0.47
Armidale.	b	78	43	0
Gunnedah	r	80	53	0·25
Coonab'an	u	66	48	0·06
P. Macqrie	b	70	58	0·09
Murr'undi	u	64	53	0
Cassilis ..	g	71	36	0
Mus'brook	u	77	51	0
Dubbo...	b	68	49	0
Mudgee ..	u	76	45	0
Maitland .	c	73	61	0
Newcastle	g	73	54	0
Orange ..	b	61	34	0
Bathurst..	b	65	38	0
MtVictoria	b	62	40	0·06
Forbes...	c	61	48	0
Bendemeer	.	..	..	..
SYDNEY	b	74	51	0
Wentw'th	b	64	46	0
Young...	c	66	46	0
Woll'gong	b	71	53	0
Moss Vale	u	62	43	0
Euston...	b	67	49	0
Goulburn.	b	64	40	0
Wagga ..	g	60	43	0
Cape Geo.	b	74	..	0
Queanb'an	b	64	41	0
Deniliquin	b	62	43	0
Albury...	b	65	41	0·02
Bodalla ..	b	78	37	0
Cooma...	n	63	31	0
Eden.....	..	..	..	..
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 4.

South Australia: Reports cloudy weather generally, but fine at Adelaide and Robe, sea smooth, barometers rising, rain at Alice Springs 0·35. Victoria: Cloudy generally, fine at Cape Otway, raining at Portland, sea smooth, barometers rising, wind light from the S.W.; rain at Melbourne 0·04, Cape Otway 0·18, Wilson's Promontory 0·02, and Portland 0·01. New South Wales: Cloudy on coast and generally east of range, fine weather inland, barometer falling N. of Cape George, sea smooth, light W. winds prevail on coast. See weather map for rain measurements. Queensland: Brisbane, fine; Cooktown, squally; Rockhampton, foggy. 3 p.m. Observations.—Victoria: Melbourne, S., 18, fine, temperature 53·; Portland, S.E., 18, fine, sea moderate, temperature 55·; Cape Otway, S., 3, cloudy, sea smooth, temperature 55·; Wilson's Promontory, E., 8, cloudy, sea smooth, temperature 55·. New South Wales: Deniliquin, S.W., 14, fine, temperature 64·; Albury, calm, dull, temperature 81·; Goulburn, calm, showery, temperature 58·; Forbes, calm, cloudy, temperature 60·; Eden, S.W., 14, dull, sea light, temperature 58·; Moruya, S.S.W., 42, dull, sea moderate, temperature 55·; Sydney, W.S.W., 8, raining, temperature 53·; Newcastle, S.W., fresh, cloudy, sea smooth, temperature 66·; Port Macquarie, S.W., 14, fine, sea smooth, temperature 65·; Clarence River, W., 14, gloomy, sea smooth, temperature 65·. State of Rivers: Murrumbidgee—At Hay, 15 feet 4 inches above summer level; at Balranald, 12 feet 6 inches above summer level. Murray—At Euston, 10 feet 3 inches above summer level. Darling—At Wentworth, 14 feet 2 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at Menindie, 25 feet 5 inches above summer level; at Wilcannia, 29 feet 4 inches above summer level.

WEATHER MAP.

4 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 4 September..40·810.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty.: O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	69	53	0
Grafton..	u	80	45	0
Inverell..	p	64	51	0·10
Walgett..	..	.	..	..
Bourke ..	b	75	54	0
Narrabri..	u	69	51	0
Armidale .	u	74	34	0.57
Gunnedah	c	72	43	0
Coonab'an	b	74	38	0
P. Macqrie	u	70	54	0·19
Murr'undi	u	59	49	1·00
Cassilis ..	b	68	38	0
Mus'brook	b	72	51	0·20
Dubbo...	b	68	50	0
Mudgee ..	b	75	48	0
Maitland .	b	64	61	0·10
Newcastle	u	72	54	0·04
Orange ..	c	60	35	0
Bathurst..	b	63	43	0
MtVictoria	u	59	40	0
Forbes...	b	65	49	0
Bendemeer	..	.	..	..
SYDNEY	u	65	54	0
Wentw'th	b	67	40	0
Young...	c	64	49	0
Woll'gong	b	66	54	0
Moss Vale	r	61	45	0·06
Euston...	u	72	42	0
Goulburn.	u	59	41	0
Wagga...	u	64	48	0
Cape Geo.	..	..	..	..
Queanb'an	u	63	42	0
Deniliquin	b	63	36	0
Albury...	b	64	45	0
Bodalla ..	r	72	41	0·57
Cooma...	—	..	..	..
Eden.....	u	60	50	0
Gabo Isld.	—	..	..	—

METEOROLOGICAL REPORTS.—SEPTEMBER 5.

South Australia reports fine weather generally, but raining in centre of continent, wind light from N.E., sea smooth, barometers falling; rain at Cape Borda 0·02, and Alice Springs 1·65. Victoria: Dull and gloomy at Wilson's Promontory and Melbourne, with moderate E.N.E. and northerly wind; fine and calm at Portland and Cape Otway, with a high sea running at the latter; rain at Wilson's Promontory 0·11, barometers falling. New South Wales: Dull and threatening throughout, but with very little rain; wind generally is from the S., but the majority of the stations report calms, sea smooth, and barometers rising on coast; inland the barometers, together with S. Australia and Victoria, are falling. Queensland: Cooktown, S.E., dull; moderate swell from E. at Brisbane Heads. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 8, cloudy, temperature 54.; Portland, S.W., 8, dull, sea smooth, temperature 55·; Cape Otway, S.S.E., 3, light rain, sea rather rough, temperature 55·; Wilson's Promontory, E.N.E., 28, dull, sea moderate, temperature 52·. New South Wales: Wentworth, S.W., fine, temperature 65·; Deniliquin, S., fine, temperature 60·; Goulburn, calm, dull, temperature 60·; Forbes, calm, dull, temperature 64·; Eden, S.E., 14, dull, sea light, temperature 60·; Moruya, S.E., 28, dull, sea moderate, temperature 56·; Sydney, S.E., 8, dull, sea smooth, temperature 57·; Newcastle, S., light, cloudy, sea smooth, temperature 67·; Port Macquarie, S.S.W., 28, dull, sea smooth, temperature 61·; Clarence River, S.W., 14, gloomy, sea smooth, temperature 63·. State of Rivers: Murrumbidgee—At Hay, 15 feet above summer level; at Balranald, 12 feet 4 inches above summer level. Murray—At Euston, 10 feet 4 inches above summer level. Darling—At Wentworth, 14 feet 3 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at Menindie, 25 feet 4 inches above summer level; at Wilcannia, 29 feet 7 inches above summer level.

WEATHER MAP.

5 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.
COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

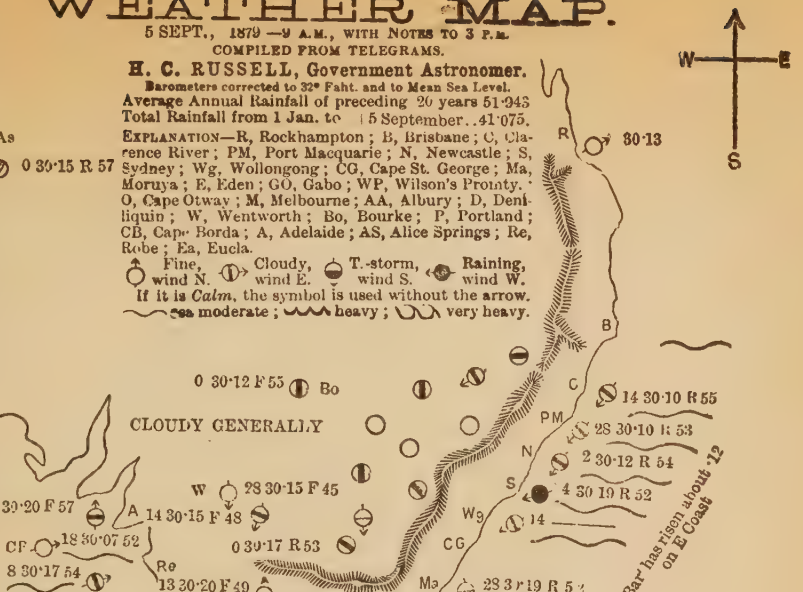
Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943
Total Rainfall from 1 Jan. to 15 September..41·075.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	u	58	39	0
Grafton..	u	68	37	0
Inverell..	u	62	46	0
Walgett..	..	..	..	..
Bourke ..	b	77	52	0
Narra'ri..	u	63	46	0
Armidale.	u	72	29	0
Gunnedah	u	76	41	0
Coonab'an	u	68	39	0
P. Macqrie	u	68	49	0
Murr'undi	c	61	43	0
Cassilis ..	u	64	42	0
Mus'brook	u	73	42	0
Dubbo...	u	66	46	0
Mudgee ..	b	73	43	0
Maitland .	u	67	57	0
Newcastle	u	75	49	0·05
Orange ..	u	60	38	0
Bathurst..	b	55	37	0
Mt Victoria	u	49	35	0
Forbes...	b	62	47	0
Bendemeer	..	..	..	..
		Ea		
SYDNEY	d	60	48	0·27
Wentw'th	b	67	36	0
Young...	c	63	42	0
Woll'gong	c	62	50	0·53
Moss Vale	u	57	42	0·15
Euston...	b	77	43	0
Goulburn.	u	59	40	0·07
Wagga...	b	71	39	0
Cape Geo.	..	..	..	..
Queanb'an	u	57	41	0
Deniliquin	u	66	32	0
Albury...	u	71	41	0
Bodalla ..	p	59	47	0
Cooma...	c	48	39	0·13
Eden ...	p	60	49	0·03
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 6.

South Australia: Fine and clear throughout; barometers falling slowly; sea smooth. Victoria reports fine clear weather at all stations except Wilson's Promontory, where it is dull, and 0·02 of rain had fallen; barometers very steady; sea smooth. New South Wales: Cloudy generally, but raining at Bodalla only; fine and clear down S.W. near Wentworth, Euston, and Deniliquin; sea smooth; barometers falling generally, with prevailing easterly winds. (See map for rain measurements). 3 p.m. Observations.—Victoria: Barometer steady; Portland, E.S.E., 28, cloudy, 56°, sea smooth; Cape Otway, E., 13, cloudy, 53°, sea smooth; Wilson's Promontory, E.N.E., 18, fine, 53°, sea smooth. New South Wales: Wentworth, S.W., fresh, fine, 69°; Deniliquin, N.W., fine, 63°; Goulburn, calm, fine, 60°; Eden, E., 14, cloudy, 57°, little easterly sea; Moruya, S.E., 20, cloudy, 57°, heavy sea; Sydney, barometer steady, light easterly wind, showery; Port Macquarie, S.W., 20, fine, 63°, sea smooth; Clarence River, S.E., cloudy, sea smooth. State of Rivers: Murrumbidgee—At Hay, 14 feet 6 inches above summer level; at Balranald, 12 feet 4 inches above summer level. Murray—At Euston, 10 feet 3 inches above summer level, [redacted]

WEATHER MAP.

6 SEPT., 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 6 September..41·148.

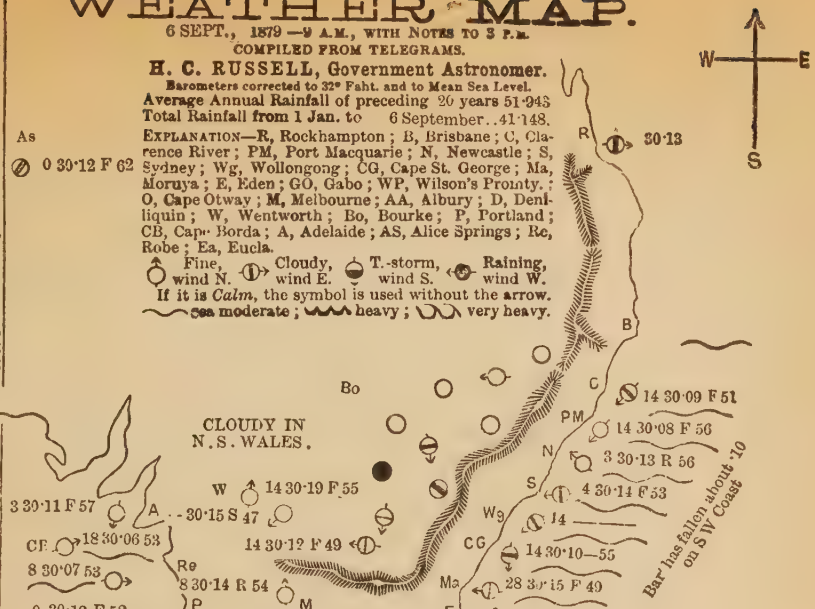
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weath	Max	Min	Rain
Tenterfield	b	54	38	0
Grafton..	b	79	43	0
Inverell..	b	61	40	0
Walgett..	..	..	..	..
Bourke ..	..	..	..	..
Narrabri..	b	54	44	0
Armidale.	b	73	27	0
Gunnedah	b	63	36	0
Coonab'an	.	..	..	..
P. Macqrie	b	61	48	0
Murr'undi	b	56	43	0
Cassilis ..	f	64	35	0·05
Mus'brook	u	70	45	0
Dubbo...	b	61	43	0
Mudgee ..	b	65	45	0
Maitland .	u	67	57	0
Newcastle	b	75	49	0
Orange ..	c	58	36	0·15
Bathurst..	u	52	43	0·12
MtVictoria	g	53	36	0·12
Forbes...	b	66	49	0
Bendemeer	..	..	..	..
SYDNEY	u	57	51	0·07
Wentw'th	b	69	40	0
Young...	b	61	42	0
Woll'gong	c	59	50	0
Moss Vale	u	52	44	0·29
Euston...	b	80	42	0
Goulburn.	g	56	40	0·12
Wagga...	g	67	45	0
Cape Geo.	c	59	.	0
Queanb'an	c	60	44	0·09
Deniliquin	b	84	33	0
Albury....	c	61	36	0·27
Bodalla ..	p	59	42	0·14
Cooma...	c	57	37	0
Eden....	b	59	47	0·02
Gabo Isld.	b	63	45	0



[illegible] smooth [illegible] calms. Victoria: [illegible] clouds broken and scattered, sea smooth, barometers rising, wind very variable. New South Wales: Cloudy and raining generally up N., fine down S., barometers falling, with smooth sea and light S.W. winds and calms on coast. Queensland: Brisbane reports light rain with moderate sea. 3 p.m. Observations.—Victoria: Melbourne, N.E., 8, cloudy, 63°, barometer steady; Portland, S.E., 18, fine, 60°, sea smooth; Cape Otway, S.E., 3, cloudy, 60°, moderate sea; Wilson's Promontory, N.E., 13, fine, 61°, sea smooth. New South Wales: Wentworth, N.N.W., showery, temperature 62°; Deniliquin, S.W., dull, temperature 62°; Albury, S.E., 14, fine, temperature 60°; Goulburn, calm, dull, temperature 58.; Forbes, calm, dull, temperature 63°; Eden, N.E., 14, fine, sea light, temperature 59°; Moruya, S.E., 42, fine, sea moderate, temperature 60°; Cape George, S.S.E., 14, cloudy, sea moderate, temperature 59°; Sydney, E., 8, dull, sea smooth, temperature 5[illegible]°; Newcastle, N.E., raining, sea smooth, temperature 62°; Port Macquarie, E., 56, raining, sea moderate, temperature 62°; Clarence River, S.W., 14, raining, sea smooth, temperature 62°. State of Rivers: Murrumbidgee—At Hay, 14 feet 4 inches above summer level; at Balranald, 12 feet 4 inches above summer level. Murray—At Albury, 10 feet 6 inches above summer level. Darling—At Wentworth, 14 feet 5 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at Menindi, 25 feet 7 inches above sumer level; Wilcannia, 30 feet 3 inches above summer level.

WEATHER MAP.

8 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

Total Rainfall from 1 Jan. to 8 September..41·342.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.: O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfield	r	60	50	1·35
Grafton..	..	..	..	..
Inverell..	r	64	37	0
Walgett..	..	..	..	..
Bourke ..	..	..	..	..
Narrabri..	r	67	56	0·23
Armidale.	r	74	32	0·24
Gunnedah	..	..	..	..
Coonab'an	..	..	..	..
P. Macqrie	r	60	53	0·51
Murr'undi	r	66	48	0
Cassilis ..	..	..	..	..
Mus'brook	r	70	38	0·01
Dubbo...	b	64	42	0
Mudgee ..	..	..	..	..
Maitland .	u	66	53	0
Newcastle	u	64	51	0
Orange ..	u	59	33	0
Bathurst..	b	62	31	0
MtVictoria	u	56	30	0
Forbes...	b	60	45	0
Bendemeer	..	..	..	..
23 29·90 53 Ea				
SYDNEY	u	61	49	0·19
Wentw'th	u	77	45	0·41
Young...	b	65	39	0
Woll'gong	b	61	46	0
Moss Vale	..	..	..	..
Euston...	..	..	..	..
Goulburn.	b	64	37	0
Wagga ..	..	..	..	..
Cape Geo.	b	63	..	0
Queanb'an	b	62	35	0
Deniliquin	b	71	40	0
Albury...	b	68	33	0·12
Bodalla ..	b	67	35	0
Cooma...	b	52	30	0
Eden.....	b	53	43	0
Gabo Isld.	b	64	51	0

METEOROLOGICAL REPORTS.—SEPTEMBER 9.

South Australia: Fine generally, with light variable winds and smooth sea. Barometers rising, no rain. Victoria: Fine generally, fresh easterly winds, sea smooth, barometerss rising, no rain. New South Wales: Cloudy and raining generally. Rain very heavy on east side of dividing range and all down coast. See map. Barometers falling generally, with a strong easterly wind and a rising sea on coast. Queensland: Moderate sea at Brisbane Heads. Dull and overcast at Cooktown. 3 p.m. Observations.—Victoria: Melbourne, S.E., 13, fine, temperature 66°, Portland, E.S.E., 23, fine, sea smooth, temperature 58°; Cape Otway, E., 18, dull, sea moderate, temperature 56°; Wilson's Promontory, E., 34, fine, sea rather rough, temperature 56°. New South Wales: Wentworth, S.E., fine, temperature 72°; Deniliquin, E., 14, dull, temperature 65°; Goulburn, E.S.E., raining, temperature 58°; Albury, calm, raining, temperature 60°; Forbes, calm, dull, temperature 60°; Eden, E.N.E., 28, showery, heavy, temperature 58°; Moruya, S.E., 56, dull, heavy sea; Sydney, E.N.E., 28, raining, sea moderate, temperature 58°; Newcastle, N.E., strong, raining, sea moderate, temperature 61°; Clarence River, S., 14, fine, heavy sea, temperature 61°. State of Rivers: Murrumbidgee—At Hay, 14 feet 5 inches above summer level; at Balranald, 12 feet 4 inches above summer level. Murray—At Euston, 10 feet above summer level. Darling—At Wentworth, 14 feet 6 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at Menindi, 25 feet 7 inches above summer level; Wilcannia, 30 feet 6 inches above summer level.

WEATHER MAP.

9 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 9 September..44·102.

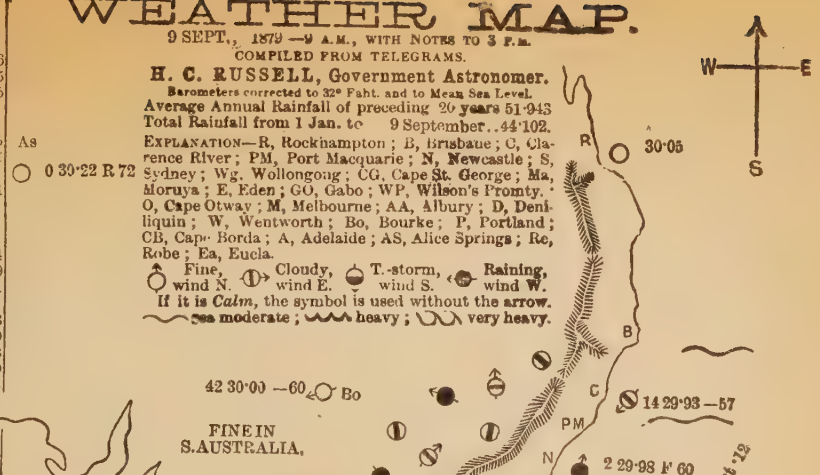
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	57	49	0·26
Grafton..	u	59	42	0·35
Inverell..	u	64	57	0·75
Walgett..	..	..	..	..
Bourke ..	b	79	50	0
Narrabri..	p	74	52	0·25
Armidale.	u	70	36	0·52
Gunnedah	..	..	..	.
Coonab'an	r	64	48	0·41
P. Macqrie	.	.	..	..
Murr'undi	f	56	46	0
Cassilis ..	d	57	38	0
Mus'brook	b	69	52	0·04
Dubbo...	b	67	54	0·29
Mudgee ..	u	62	51	0 21
Maitland .	r	63	52	0
Newcastle	r	65	57	0·03
Orange ..	r	58	31	0·10
Bathurst..	u	57	48	0·13
Mt Victoria	r	51	40	0·70
Forbes...	u	65	48	0·15
Bendemeer	..	..	..	..
SYDNEY	r	60	53	2·76
Wentw'th	b	60	43	0·32
Young...	r	63	52	0
Woll'gong	r	60	54	2·90
Moss Vale	r	53	47	1·46
Euston...	b	80	44	0
Goulburn.	..	.	..	..
Wagga...	..	..	.	..
Cape Geo.	r	63	..	2·74
Queanb'an	r	57	46	0·70
Deniliquin	u	71	41	0
Albury...	c	72	48	0·05
Bodalla ..	q	70	55	2·47
Cooma...	r	60	37	0·37
Eden.....	u	59	50	0·09
Gabo Isld.	c	68	55	0



METEOROLOGICAL REPORTS.—SEPTEMBER 10.

South Australia reports fine clear weather generally, with light northerly winds, barometers falling, sea smooth; over an inch of rain measured this morning at Yam Creek. Victoria: Cloudy, with fresh E.N.E. winds; rough sea at Wilson's Promontory, barometers falling; Melbourne reports fine weather, with rising barometers, no rain. New South Wales: Heavy rains general to E. of range (see weather map), heavy sea, with strong E.S.E. gales and much rain on coast; Newcastle, Port Macquarie, and Clarence Heads not received, lines being interrupted; fine weather still continues in the Wentworth and Deniliquin districts; at Newcastle, sea breaking heavily across the entrance. Queensland: Cooktown, fine and clear. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, fine, temperature 63°; Portland, E., 13, fine, sea slight, temperature 64°; Cape Otway, E., 18, cloudy, sea moderate, temperature 57°; Wilson's Promontory, E.N.E., 40, cloudy, sea high, temperaturs 66°. New South Wales: Wentworth, S.W., cloudy, temperature 70°; Deniliquin, calm, fine, temperature 66°; Albury, S.E., 14, cloudy, temperature 62°; Goulburn, E.S.E., showery, temperature 58°; Forbes, N.W., 28, cloudy, temperature 60°; Sydney, E., 30, thick and raining, heavy sea, temperature 57°, barometer steady all day to 3 p.m., when it began to rise steadily, and by 8 p.m. had risen 0·13, wind and rain are abating; Newcastle, light S.S.E. wind, sea going down, but still breaking across the entrance, weather thick and raining. State of Rivers: Murrumbidgee—At Hay, 15 feet above summer level; at Balranald, 12 feet 8 inches above summer level. Murray—At Euston, 10 feet 8 inches above summer level. Darling—At Wentworth, 14 feet 7 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at [illegible] 25 feet 8 inches above summer level; at Wilcannia, 30 [illegible] inches above summer level.

WEATHER MAP.

10 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 10 September..49·793.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	59	40	0
Grafton..	..	.	..	..
Inverell..	..	.	..	.
Walgett..	..	..	..	.
Bourke ..	c	71	51	0·01
Narra'bri..	..	..	.	..
Armidale .	b	69	31	0·1..
Gunnedah	..	..	..	.
Coonab'an	u	66	43	0·13
P. Macqrie	.	.	..	..
Murr'undi	..	.	..	..
Cassilis ..	r	55	35	0·56
Mus'brook	..	..	.	..
Dubbo...	p	65	46	0·47
Mudgee ..	r	56	47	1 80
Maitland .	..	..	..	..
Newcastle	..	..	..	..
Orange ..	r	53	36	1·15
Bathurst..	r	58	44	0
MtVictoria	r	57	40	1·50
Forbes...	u	62	48	0·19
Bendemeer	..	.	..	..
13 29·85 73 Ea				
SYDNEY	r	61	55	5·69
Wentw'th	b	71	45	0
Young...	u	59	50	0·40
Woll'gong	p	66	56	3·42
Moss Vale	r	52	47	3·54
Euston...	b	81	43	0
Goulburn.	r	52	45	2 34
Wagga...	b	62	49	0·01
Cape Geo.	q	60	..	3·59
Queanb'an	d	53	47	1·17
Deniliquin	b	69	48	0
Albury...	b	60	47	0·13
Bodalla ..	p	62	51	0·26
Cooma...	c	50	43	0·08
Eden.....	u	59	54	0
Gabo Isld.	c	68	55	0·04

METEOROLOGICAL REPORTS.—SEPTEMBER 11.

South Australia: Fine clear weather, with unsteady barometer; light northerly winds and smooth sea, no rain. Victoria: Fine generally, cloudy on S. and S. E. coast, sea smooth, wind moderate from the north, barometers steady, no rain. New South Wales: Weather clearing and sea going down generally, but it is still showery, with heavy sea running at some of the southern coast stations, and cloudy at the majority of stations on coast side of range; barometers rising, with light variable winds on coast. [See weather map for rain measures.] Queensland: Cooktown, calm and threatening, rain 0.010, smooth sea at Brisbane Heads. 3 p.m. Observations.—New South Wales: Deniliquin, N., fine, temperature 70°; Albury, N.W., 14, cloudy, temperature 63°; Goulburn, calm, dull, temperature 61°; Forbes, calm, cloudy, temperature 66.; Eden, N. 14, dull, heavy sea, temperature 64°; Moruya, N.E., 42, dull, sea moderate, temperature 65°; Sydney, E., 8, fine, sea moderate, temperature 63°; Newcastle, E.S.E. 14, dull, little sea, temperature 70°; Port Macquarie, E. 56, squally, heavy sea, temperature 68°; Clarence River, E.S.E., one. Heavy sea, temperature 68°. State of Rivers: Murrumbidgee—At Hay, 15 feet 3 inches above summer level; at Balranald, 12 feet 9 inches above summer level. Murray—At Euston, 10 feet 6 inches above summer level. Darling—At Wentworth, 1[illegible] feet 5 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at Menindie, 25 feet 9 inches above summer level; at Wilcannia, 30 feet 10 inches above summer level.

WEATHER MAP.

11 SEPT., 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 11 September..51·022.

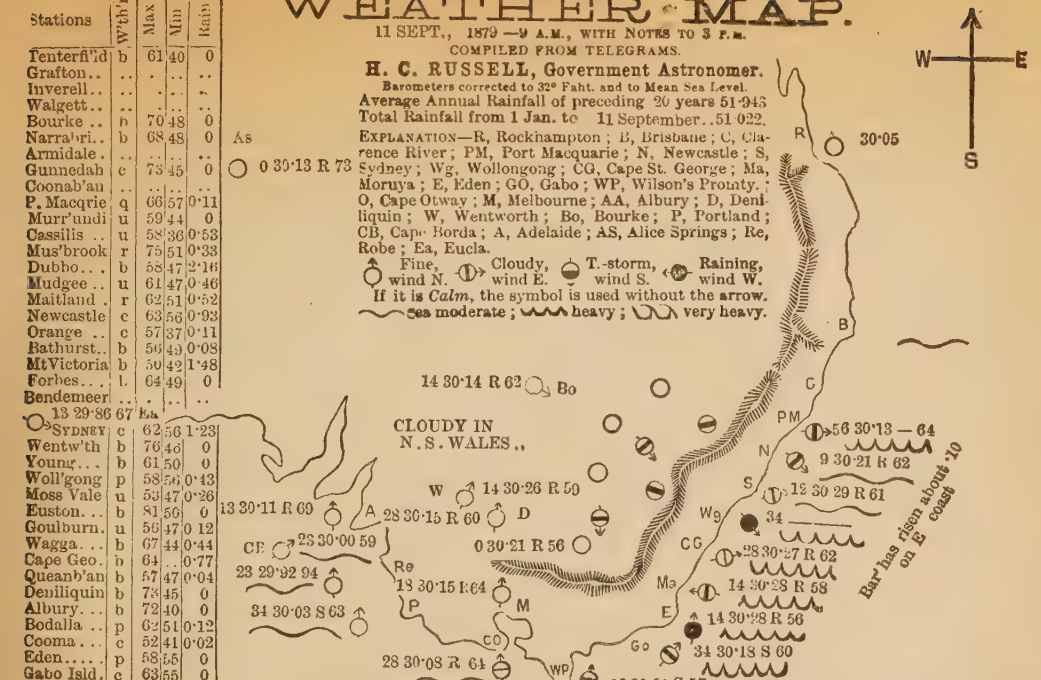
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	61	40	0
Grafton..	..	.	..	..
Inverell..	..	.	..	.
Walgett..	..	.	..	..
Bourke ..	b	70	48	0
Narrabri..	b	68	48	0
Armidale.	..	..	..	..
Gunnedah	c	73	45	0
Coonab'an	..	..	..	..
P. Macqrie	q	66	57	0·11
Murr'undi	u	59	44	0
Cassilis ..	u	58	36	0·53
Mus'brook	r	75	51	0·33
Dubbo...	b	58	47	2·16
Mudgee ..	u	61	47	0·46
Maitland .	r	62	51	0·52
Newcastle	c	63	56	0·93
Orange ..	c	57	37	0·11
Bathurst..	b	56	49	0·08
MtVictoria	b	50	42	1·48
Forbes...	b	64	49	0
Bendemeer	..	.	..	..
SYDNEY	c	62	56	1·23
Wentw'th	b	76	46	0
Young...	b	61	50	0
Woll'gong	p	58	56	0·43
Moss Vale	u	53	47	0·26
Euston...	b	81	56	0
Goulburn.	u	56	47	0·12
Wagga...	b	67	44	0·44
Cape Geo.	b	64	..	0·77
Queanb'an	b	57	47	0·04
Deniliquin	b	73	45	0
Albury...	b	72	40	0
Bodalla ..	p	62	51	0·12
Cooma...	c	52	41	0·02
Eden.....	p	58	55	0
Gabo Isld.	c	63	55	0



METEOROLOGICAL REPORTS.—SEPTEMBER 11.

South Australia reports splendid rains have fallen south of Port Augusta, barometers are rising, and the wind generally is from the W.; rains at Adelaide 0·50, Cape Borda 0·64, and Robe 0·51; rough sea at Cape Borda. Victoria: Cloudy generally, squally at Wilson's Promontory, with a hot north wind; raining at Portland (0·66?, and Cape Otway (0·32); barometers falling, wind wind light from the N. and W.N.W. New South Wales: Fine weather generally, but still cloudy and threatening at some of the coast and eastern stations; sea heavy down S., but apparently subsiding; the rainfall is very small and scattered (see weather map); barometer falling rapidly on coast, especially at S. stations. Queensland: Brisbane, fine and clear, S.E. wind. 3 p.m. Observations.—Victoria: Melbourne, calm, showery, temperature 55°. Portland, W., 28, fine, sea smooth, temperature 66°. Cape Otway, W., 18, cloudy, sea moderate, temperature 55°; Wilson's Promontory, W., 4, showery, squally, sea moderate, temperature 55°. New South Wales: Wentworth, N.N.W., dull, temperature 66°; Deniliquin, N.W., raining, temperature 68°; Goulburn, W.N.W., wind, temperature 65°; Forbes, calm, dull, temperature 6[illegible]°, Eden, N.E., 28, cloudy, heavy sea, temperature 63°; Moruya, N.E., [illegible], cloudy, heavy sea, temperature 6[illegible]°; Cape George, N.N.E., cloudy, moderate sea, temperature 6[illegible]°; Sydney, E.N.E., 1[illegible], [illegible], smooth sea, temperature 67°; Newcastle, N., 14, fine, [illegible] sea, temperature 71°; Port Macquarie, N.E., 12, dull, moderate sea, temperature 73°. State of Rivers: Murrumbidgee—At Wagga, 2 feet 1 inch above summer level; at Hay, 15 feet 1 inches above summer level; at Balranald, 13 feet 11 inches above summer level. Murray—At Albury, 8 feet above summer level, at Euston, 10 feet above summer level. Darling—At Wentworth, 14 feet 9 inches above summer level; at Pooncarie 21 feet 3 inches above summer level; at Menindie, 25 feet 9 inches above summer level; at Wilcannia, 30 feet 11 inches above summer level.

WEATHER MAP.

12 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

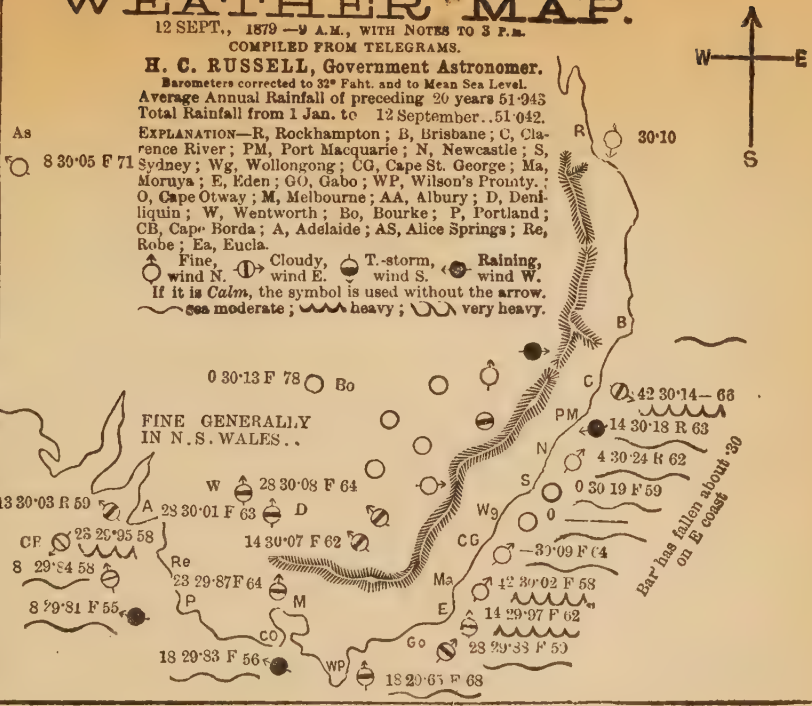
Total Rainfall from 1 Jan. to 12 September..51·042.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	p	61	53	0·22
Grafton..	u	72	47	0·30
Inverell..	b	68	45	0
Walgett..	..	..	..	..
Bourke ..	b	80	53	0
Narra'ri..	b	72	53	0
Armidale.	u	73	39	0·17
Gunnedah	..	..	..	..
Coonab'an	b	77	43	0
P. Macqrie	r	69	61	0·03
Murr'undi	b	55	49	0
Cassilis ..	u	63	37	0
Mus'brook	b	73	54	0
Dubbo...	b	70	47	0
Mudgee ..	u	73	47	0
Maitland .	c	66	59	0·45
Newcastle	b	65	54	0·02
Orange ..	c	65	40	0
Bathurst..	b	62	45	0
MtVictoria	c	58	43	0·27
Forbes...	b	67	51	0
Bendemeer	..	..	..	..
Ea				
SYDNEY	b	66	55	0·92
Wentw'th	u	77	55	0
Young...	b	68	48	0
Woll'gong	b	69	56	0
Moss Vale	b	57	44	0·05
Euston...	u	90	54	0
Goulburn.	b	63	44	0
Wagga...	b	74	49	0
Cape Geo.	b	66	..	0
Queanb'an	b	63	45	0
Deniliquin	b	74	53	0
Albury...	u	75	52	0
Bodalla ..	b	68	41	0
Cooma...	c	63	43	0
Eden.....	b	64	54	0·01
Gabo Isld.	c	66	55	0

METEOROLOGICAL REPORTS.—SEPTEMBER 13.

South Australia: Reports fine weather generally, with rising barometers and light N.N.E. and W.N.W. winds; sea rough at Cape Borda; no rain. Victoria: Fine weather generally, sea light and moderate, fresh N.E. and N.W. winds, barometers rising, rain at Melbourne, 0·40, Wilson's Promontory, 0·28, and Portland, 0·01. New South Wales: Cloudy weather prevails, but no rain is falling; sea is still heavy, with rising barometers at several of the southern stations, but up north it is smooth, with steady and falling barometers; wind on coast very light and variable. (For rain record, see weather map.) 3 p.m. Observations.—Victoria: Barometers steady; Portland, W., 34, passing showers, temperature 58°, sea smooth; Cape Otway, N.W., 18, cloudy, temperature 50°, rough sea; Wilson's Promontory, W., 18, squally, temperature 56°, sea smooth. New South Wales: Wentworth, N.W., fine, clear, temperature 67°; Deniliquin, calm, fine, temperature 65°; Albury, N.W., cloudy, temperature 64°; Goulburn, calm, cloudy, temperature 67°; Forbes, calm, cloudy, temperature 62°; Eden, E.N.E., 14, fine, heavy sea, temperature 60°; Moruya, S.E., 20, cloudy, heavy easterly swell; Cape George, calm, temperature 65°, sea smooth; Sydney, E., 14, cloudy, temperature 66°; Newcastle, E., 14, fine, hot, temperature 77°, sea smooth; Port Macquarie, N.E., 14, fine, temperature 68°, sea moderate; Clarence River, S., 14, temperature 70°, sea moderate. State of Rivers: Murrumbidgee—At Wagga, 2 feet 7 inches above summer level; at Hay, 15 feet 9 inches above summer level; at Balranald, 13 feet above summer level. Murray—At Albury, 8 feet 3 inches above summer level; at Euston, 11 feet above summer level. Darling—At Wentworth, 14 feet 9 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at Menindie, 25 feet 10 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

13 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 13 September..51·042.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	60	49	0
Grafton..	u	70	55	0
Inverell..	g	71	45	0
Walgett..	..	..	..	..
Bourke ..	b	86	65	0
Narra'bri..	b	75	58	0
Armidale.	b	76	29	0
Gunnedah	..	..	..	..
Coonab'an	g	83	49	0
P. Macqrie	b	71	57	0·12
Murr'undi	b	69	54	0
Cassilis ..	b	77	36	0
Mus'brook	b	77	53	0
Dubbo...	u	72	62	0
Mudgee ..	b	77	45	0
Maitland .	b	70	62	0·13
Newcastle	b	71	59	0
Orange ..	g	67	45	0·19
Bathurst..	g	70	53	0·08
MtVictoria	c	65	45	0
Forbes...	g	66	53	0
Bendemeer	..	..	..	..
SYDNEY	g	68	60	0
Wentw'th	b	68	43	0·17
Young...	c	71	60	0
Woll'gong	g	64	59	0
Moss Vale	.	..	..	..
Euston...	b	77	40	0·17
Goulburn.	b	72	51	0
Wagga...	u	76	50	0
Cape Geo.	b	66	..	0
Queanb'an	b	62	49	0
Deniliquin	g	70	46	0·22
Albury...	g	71	49	0·12
Bodalla ..	b	76	42	0
Cooma...	b	64	41	0
Eden.....	b	64	53	0
Gabo Isld.	c	64	52	0

METEOROLOGICAL REPORTS.—SEPTEMBER 15.

South Australia reports fine weather generally with a few broken clouds; bar rising, sea smooth, and wind light and variable; rain at Robe 0·14. Victoria: Cloudy weather, but without rain; sea smooth, bars rising; light S. and S.E. winds prevail; rain at Portland 0·10. New South Wales: Cloudy and showery generally; light rains, averaging about ·50 have fallen over almost the whole of the eastern part of the colony, but inland, at Bourke and Euston, the weather is fine. On the coast the weather is boisterous; wind S.S.W.; sea heavy down S., and moderate up W.; the barometer is rising to south (see map). Queensland: Cooktown, calm and intensely oppressive. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, cloudy, temperature 56·; Portland, E.S.E, 23, fine, temperature 56, sea smooth; Cape Otway, N.N.E. 18, cloudy, high sea, temperature 57·; Wilson's Promontory, E., 13, cloudy, temperature 60·, sea smooth. New South Wales: Wentworth, S., fine, temperature 67·; Deniliquin, S., dull, tempernture 74'; Albury, calm, raining, temperature 60·; Goulburn, S., raining, temperature 59·; Forbes, calm, showery, temperature 60·; Eden, S.W., 28, showery, heavy sea, temperature 55·; Moruya, S.S.E., 40, thick, raining, temperature 55·, heavy sea; Cape George, S.S.W., 56, raining, sea rising, temperature 58·; Sydney, S.S.W., 30, dull, little sea, temperature 61·: Newcastle, S.S.W., strong, thick, little sea, temperature 64·; Port Macquarie, S., 28, cloudy, moderate sea, temperature 70·; Clarence River, S.E., 28, fine, sea moderate, temperature 71·. It will be seen by reference to the weather map that at 9 a.m. the barometers to south were rising, and those to north falling, with heavy sea on the coast from Eden to Moruya. 3 p.m. barometers to south were rising slowly, and the heavy sea had extended to Cape George. To the north the barometers had fallen about one-tenth inch, thus increasing the difference between barometers at Portland and Clarence River. The gradient is 5, or a fall in the barometer of 0·05 for every sixty miles; should this continue through the night a heavy southerly wind will be the result. At 3 p.m. it was raining generally along the coast. State of Rivers: Murrumbidgee—At Hay, 16 feet 4 inches above summer level; at Balranald, 13 feet 6 inches above summer level. Murray—At Albury, 8 feet 5 inches above summer level; at Euston, 11 feet 6 inches above summer level. Darling—At Wentworth, 14 feet 11 inches above summer level; at Pooncarie, 21 feet 3 inches above summer level; at Menindie, 25 feet 10 inches above summer level; at Wilcannia, 31 feet 2 inches above summer level.

WEATHER MAP.

15 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 15 September..51·164.

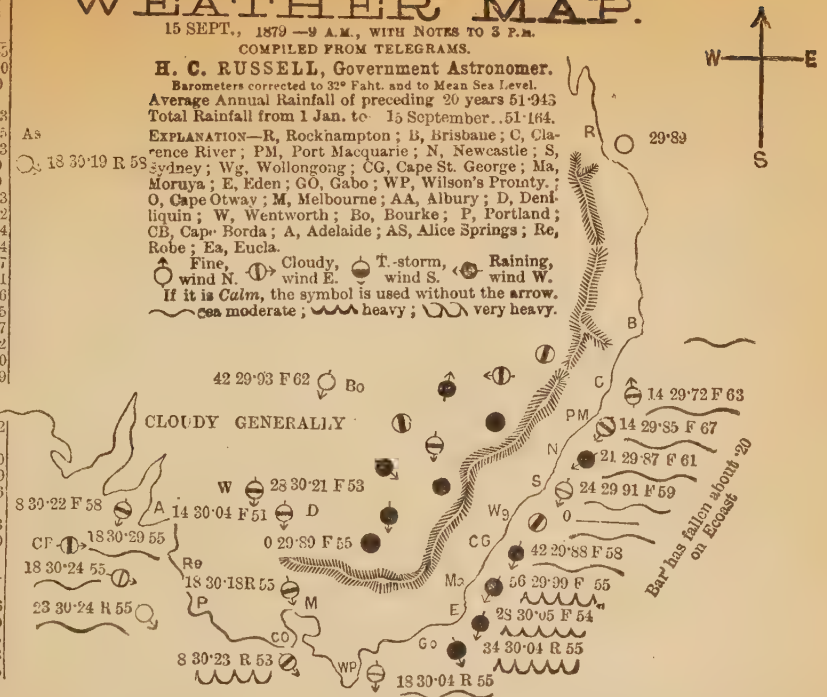
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wthr	Max	Min	Rain
Tenterfi'ld	u	68	54	0·45
Grafton..	u	72	50	0·10
Inverell..	u	74	45	0
Walgett..	..	..	..	..
Bourke..	b	69	52	0·03
Narrabri..	u	74	51	0·05
Armidale.	r	77	42	0·43
Gunnedah	c	87	57	0
Coonab'an	u	80	55	0
P. Macqrie	u	73	63	0·03
Murr'undi	u	72	56	1·02
Cassilis..	u	74	37	0·24
Mus'brook	u	81	37	0·14
Dubbo...	u	72	49	0·27
Mudgee..	p	80	59	0·61
Maitland	u	75	55	0·26
Newcastle	r	72	60	0·45
Orange..	r	68	46	0·57
Bathurst..	u	67	53	0·42
MtVictoria	u	67	44	0·70
Forbes...	u	59	48	0·19
Bendemeer	..	..	..	..
SYDNEY	u	67	58	0·12
Wentw'th	b	72	48	0
Young...	r	69	55	0·50
Woll'gong	u	66	55	0·19
Moss Vale	r	69	49	0·36
Euston..	b	82	51	0
Goulburn.	..	66	47	1·63
Wagga...	r	76	49	0·20
Cape Geo.	.	..	..	..
Queanb'an	p	70	51	0·31
Deniliquin	u	66	40	0
Albury...	r	71	37	0·96
Bodalia..	r	65	50	0·20
Cooma...	r	56	44	0·65
Eden.....	p	60	53	0·28
Gabo Isld.	p	61	54	0·35



WEATHER MAP.

16 SEPT., 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 16 September..52·952.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterf'ld	..	..	..	..
Grafton..	..	..	..	..
Inverell..	..	..	..	..
Walgett..	..	..	..	..
Bourke ..	u	74	55	0
Narrabri..	r	65	57	1·70
Armidale.	..	..	..	..
Gunnedah	c	83	53	1·97
Coonab'an	r	70	54	1·26
P. Macqrie	u	76	62	0·84
Murr'undi	r	68	55	0·35
Cassilis ..	r	64	39	1·25
Mus'brook	r	75	55	0·56
Dubbo...	r	67	57	1·10
Mudgee ..	r	80	57	0·33
Maitland .	r	68	61	2·20
Newcastle	r	68	59	2·28
Orange ..	r	61	43	0·18
Bathurst..	r	62	53	0·11
MtVictoria	r	55	45	1·46
Forbes...	r	61	46	1·18
Bendemeer	..	..	..	..
SYDNEY	r	62	58	1·79
Wentw'th	..	..	..	..
Young...	u	58	54	0·17
Woll'gong	r	66	56	0·98
Moss Vale	r	56	47	1·12
Euston...	c	71	51	0
Goulburn.	r	52	49	0·22
Wagga...	..	..	..	..
Cape Geo.	..	..	..	..
Queanb'an	c	58	50	0·07
Deniliquin	u	63	57	0
Albury...	r	60	53	0·65
Bodalla ..	r	59	49	1·08
Cooma...	p	55	44	0·45
Eden.....	r	59	44	2·39
Gabo Isld.	u	60	54	1·17

METEOROLOGICAL REPORTS.—SEPTEMBER 17.

South Australia: Adelaide, 30·00, 59°, S., 13, cloudy; Cape Borda, 30·07, 53°, cloudy, moderate sea; Robe, 29·96, 55°, S.E., 23, threatening, sea smooth (telegrams too late for map). Victoria: Cloudy, but not raining, with moderate S.W. winds, and falling barometer, sea rather rough at Wilson's Promontory, and 0·06 rain recorded at same station. New South Wales: Cloudy weather generally, still raining, and heavy sea up N. (see map for measurements), down S. generally the weather appears to be clearing, and the wind has backed to the westerly quarter, barometers rising. Queensland: Smooth sea at Brisbane Heads, fine, with W. wind at Rockhampton. 3 p.m. Observations.—Victoria: Melbourne, barometers steady; S., 13, showery; Cape Otway, S.E., 18, misty, 5[illegible], moderate sea; Portland, S.S.E., 34, misty, 58°, moderate sea; Wilson's Promontory, S.E., 23, misty, 54°, rough sea. New South Wales: Wentworth, line interrupted; Deniliquin, S., cloudy, temperature 67°; Albury, E., 10, cloudy, temperature 66°; Goulburn, calm, cloudy, temperature 61°; Forbes, calm, cloudy, temperature 61°; Eden, E.S.E., 20, thick fog and heavy easterly sea; Cape St. George, N., 20, fine, sea smooth; Sydney, N.E., fine, clear, sea smooth; Newcastle, N.W., 10, like rain, sea moderate, temperature 77°; Port Macquarie, N., 14, fine, temperature 65°, sea moderate; Clarence River, N.W., 20, fine, sea smooth, temperature 77°; Bega, Mr. R. M. Broad reports 8 inches of rain during last 48 hours, and country flooded all round. State of Rivers: Darling—at Wentworth, 15 feet 3 inches above summer level; at Pooncarie, 22 feet 3 inches above summer level; at Menindie, 25 feet 11 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

17 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 17 September..54·070.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	62	53	0
Grafton..	b	82	45	0
Inverell..	r	66	51	0·25
Walgett..	..	..	..	..
Bourke...	u	63	52	0·08
Narra'ri..	u	67	53	0·36
Armidale.	r	70	35	0·25
Gunnedah	u	68	48	0·19
Coonab'an	p	66	49	0·06
P. Macqrie	p	72	58	0·55
Murr'undi	u	72	41	0·19
Cassilis ..	u	60	43	0
Mus'brook	b	77	51	0
Dubbo...	..	..	..	..
Mudgee ..	u	63	53	1·45
Maitland .	b	67	64	0·45
Newcastle	b	67	57	0
Orange ..	u	61	41	0·86
Bathurst..	u	60	49	1·30
MtVictoria	c	56	45	0
Forbes...	u	60	49	0·96
Bendemeer	..	..	..	..
	Ea			
SYDNEY	b	69	59	1·12
Wentw'th	...	..	..	..
Young...	c	67	53	0·41
Woll'gong	c	63	60	0·45
Moss Vale	u	59	52	1·98
Euston...	.	..	..	..
Goulburn.	r	52	51	1·65
Wagga...	u	64	56	0·05
Cape Geo.	b	66	..	2·20
Queanb'an	..	..	..	..
Deniliquin	..	..	..	..
Albury...	u	60	53	0
Bodalla ..	r	59	49	1·08
Cooma...	p	55	44	0·45
Eden.....	r	59	44	2·30
Gabo Isld.	..	..	.	..

METEOROLOGICAL REPORTS.—SEPTEMBER 19.

South Australia reports fine weather with broken clouds, barometers very steady, light S. wind, sea smooth; rain at Robe, 0·02. Victoria: Cloudy, with fresh southerly winds, sea moderate. Barometers falling very slowly. Raining at Melbourne (measured 0·02) and Cape Otway (0·02). New South Wales: Cloudy generally. Fine weather with smooth sea N. of Cape St. George, dull and showery to south and at the inland stations generally. Barometers rising up N., falling down S., westerly and southerly winds prevail. (See weather map for rain records.) Queensland: Rockhampton, fine, wind N.W.; Cooktown, sultry and clear, wind N.E., 8 miles; sea moderate at Brisbane Heads. 3 p.m. Observations.—Victoria: Cape Otway, S., 13, light rain, sea moderate, temperature 52°; Portland, S., 28, dull, sea smooth, temperature 57°; Melbourne, S.W., 13, dull, temperature 54°. New South Wales: Wentworth, S.S.E., 28, fine, temperature 70°; Deniliquin, W., 14, dull, temperature 64°; Albury, calm, cloudy, temperature 64°; Goulburn, W., 14, fine, temperature 61°; Forbes, calm, raining, temperature 61°; Eden, S.W., 14, fine, heavy sea, temperature 63°; Gabo, SW., 30, showery, rough sea; Sydney, N.E., 14, dull, smooth sea, temperature 67°; Port Macquarie, N.N.E., 28, dull, sea moderate, temperature 67°; Clarence River, N.W., 28, sea smooth, temperature 73° State of Rivers:—Murrumbidgee—at Wagga, 1 foot 9 inches above summer level; at Hay, 21 feet 2 inches above summer level; at Balranald, 13 feet 10 inches above summer level. Murray—at Albury, 9 feet above summer level; at Euston, 12 feet 6 inches above summer level; Darling, at Wentworth, 16 feet above summer level; Pooncarie, 21 feet 3 inches above summer level; Menindi, 25 feet 11 inches above summer level; Wilcannia, 31 feet 7 inches above summer level.

WEATHER MAP.

18 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

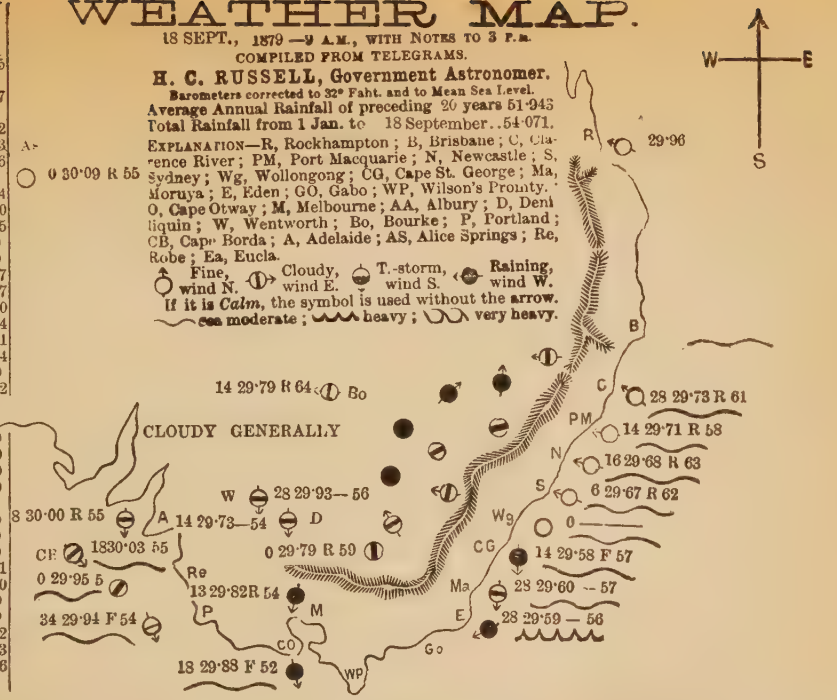
Total Rainfall from 1 Jan. to 18 September..54·071.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	59	49	0·15
Grafton..	b	74	61	0
Inverell..	r	62	53	0 17
Walgett..	..	..	..	..
Bourke ..	c	70	55	0·02
Narrabri..	p	62	54	0·33
Armidale.	u	71	37	0·16
Gunnedah	.	..	..	.
Coonab'an	d	61	52	0·04
P. Macqrie	b	70	50	0·30
Murr'undi	u	62	54	0·25
Cassilis ..	u	64	45	0
Mus'brook	b	80	54	0
Dubbo...	u	65	57	0·17
Mudgee ..	u	64	54	0·07
Maitland .	b	70	56	0·50
Newcastle	b	75	55	0·04
Orange ..	u	60	42	0·11
Bathurst..	u	59	48	0·14
MtVictoria	c	62	42	0
Forbes...	p	62	46	0·42
Bendemeer	..	..	..	..
0 30·11 60 Ea				
SYDNEY	b	70	56	0
Wentw'th	u	75	51	0
Young...	p	60	53	0
Woll'gong	b	67	58	0
Moss Vale	..	.	..	..
Euston...	u	76	56	0
Goulburn.	b	62	47	0
Wagga...	r	63	50	0
Cape Geo.	p	67	..	0·61
Queanb'an	c	59	51	0·50
Deniliquin	u	72	48	0
Albury...	u	76	53	0
Bodalla ..	p	67	55	0·12
Cooma...	c	60	46	0·23
Eden.....	r	62	55	0·16
Gabo Isld.	..	..	..	..

METEOROLOGICAL REPORTS.—SEPTEMBER 19.

South Australia reports: Cloudy weather, with steady barometer, light southerly winds and smooth sea; rain at Robe, 0·02. Victoria: Cloudy; showery at Portland, and light misty rain at Melbourne; barometers steady, sea smooth; rain at Melbourne, 0·14; Portland, 0·03; Cape Otway, 0·07; and Wilson's Promontory, 0·79. New South Wales: Cloudy and threatening, but without rain; sea rather rough at Gabo Island, but smooth elsewhere; barometers generally rising, with light westerly winds. For rain records see list in weather maps. Queensland: Smooth sea at Brisbane Heads; fine at Rockhampton, wind N.W. 3 p.m. Observations.—Victoria: Melbourne, .S.W., 18, fine, temperature 55·; Portland, S.S.W., 28, cloudy, smooth, temperature 55·; Cape Otway, W., 8, showery, moderate, temperature 52·; Wilson's Promontory, W.S.W., 28, showery, moderate, temperature 52·. New South Wales: Wentworth, S.S.W., fine, temperature 67·; Deniliquin, S.S.W., 14, dull, temperature 63·; Albury, S.W., 14, cloudy, temperature 64·; Goulburn, W., threatening, temperature 61·; Forbes, N.W., cloudy, temperature 62·; Eden, S.W., dull, 14, sea little, temperature 63·; Cape George, S.S.E., 28, dull, sea little, temperature 59·; Sydney, S., 8, cloudy, sea smooth, temperature 60·; heavy rain at 12.30 p.m.; Port Macquarie, N.W., 14, dull, sea smooth, temperature 68·: Clarence River, N.W., 14, fine, sea smooth, temperature 75· State of Rivers.—Murrumbidgee, Hay, 21 feet 11 inches above summer level; at Balranald, 14 feet above summer level. Murray, Euston, 12 feet 6 inches above summer level; Darling, at Wentworth, 15 feet above summer level; Pooncarie, 21 feet 3 inches above summer level; Menindi, 25 feet 11 inches above summer level; Wilcannia, 31 feet 8 inches above summer level.

WEATHER MAP.

19 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

Total Rainfall from 1 Jan. to 19 September..54.161.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	62	52	0·11
Grafton..	g	79	44	0
Inverell..	p	65	56	0·28
Walgett..	..	..	..	..
Bourke..	b	68	56	0
Narr'ori.	c	66	52	0·30
Armidale.	u	70	38	0·52
Gunnedah	u	71	51	0·11
Coonab'an	g	68	47	0·52
P. Macqrie	g	70	58	0
Murr'undi	u	61	56	0·25
Cassilis..	u	67	46	0·10
Mus'brook	b	80	57	0·04
Dubbo...	u	67	56	0·53
Mudgee..	u	65	54	0·30
Maitland.	b	70	..	0
Newcastle	b	74	61	0
Orange..	g	59	40	0·50
Bathurst..	u	59	50	0·11
MtVictoria	c	61	46	0
Forbes...	g	63	48	0·86
Bendemeer	..	..	..	..
SYDNEY	g	71	61	0·04
Wentw'th	b	71	41	0·08
Young...	b	61	53	0·18
Woll'gong	c	69	60	0·17
Moss Vale	..	..	..	..
Euston...	g	80	45	0
Goulburn.	u	64	51	0·07
Wagga...	u	68	53	0
Cape Geo.	b	66	..	0·35
Queanb'an	c	63	50	0·30
Deniliquin	b	61	42	0·07
Albury...	b	66	48	0·50
Bodalla...	r	73	53	0·33
Cooma...	c	61	44	0·16
Eden.....	u	63	56	0·55
Gabo Isld.	m	59	52	0·15

METEOROLOGICAL REPORTS.—SEPTEMBER 20.

South Australia: Fine generally, with light broken clouds, barometers rising, sea smooth, wind light and moderate from the N. Victoria: Fine at Portland and Cape Otway, cloudy at Melbourne and Wilson's Promontory, sea moderate, barometers rising, wind fresh from W. New South Wales: Cloudy generally, fine up N. at Clarence River and down S.W. in Riverina district; sea rough at Gabo Island, but moderate or light elsewhere; fresh S.S.E. winds and showery weather prevail on coast, barometers rising. See map for rain records. Queensland: Smooth sea at Brisbane Heads; Rockhampton, fine, wind S.S.W.; Cooktown, fine, sultry, and calm. 3 p.m. Observations.—Victoria: Barometers steady; Portland, S.W., 23, cloudy, temperature 57°, sea smooth; Cape Otway, W., 8, cloudy, 54°, moderate sea; Wilson's Promontory, W., 23, cloudy, 53°, moderate sea; New South Wales: Wentworth, W.S.W., fine, temperature 65°; Deniliquin, calm, fine, temperature 67°; Albury, W., fine, temperature 62°; Goulburn, calm, fine, temperature 60°; Forbes, calm, fine, temperature 62°; Eden, S.W., 20, fine, temperature 61°; Moruya, N.E., 20, fine, sea moderate, temperature 60°; Cape George, S.E., 20, fine, little south-east sea; Sydney, S., 14, fine, temperature 59°; Port Macquarie, S., 20, fine, sea smooth; Clarence River, S., 20, fine, sea smooth, temperature 70°. State of Rivers.—Murrumbidgee, at Wagga, 30 feet 6 inches above summer level; at Hay, 21 feet 10 inches above summer level; at Balranald, 14 feet above summer level. Murray, at Albury, 9 feet 4 inches above summer level; at Euston, 12 feet 6 inches above summer level; Darling, at Wentworth, 15 feet 2 inches above summer level; Pooncarie, 21 feet 3 inches above summer level; Menindie, 26 feet above summer level; Wilcannia, 31 feet 10 inches above summer level.

WEATHER MAP.

20 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 20 September..54·557.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	64	49	0·24
Grafton..	b	85	43	0
Inverell..	..	..	..	..
Walgett..	..	.	..	..
Bourke ..	b	76	..	0
Narrabri..	b	69	49	0·08
Armidale.	g	70	36	0·08
Gunnedah	c	76	41	0
Coonab'an	u	67	43	0·08
P. Macqrie	b	73	56	1 47
Murr'undi	r	65	51	0
Cassilis ..	u	64	42	0·06
Mus'brook	b	78	53	0·02
Dubbo...	b	65	50	0
Mudgee ..	b	66	60	0·23
Maitland .	u	72	..	0
Newcastle	r	74	51	0·45
Orange ..	g	55	34	0
Bathurst..	u	56	45	0
MtVictoria	u	54	40	0
Forbes...	b	64	49	0
Bendemeer	..	.	..	..
SYDNEY	r	67	54	0·45
Wentw'th	b	69	37	0
Young...	b	63	44	0
Woll'gong	p	63	53	0
Moss Vale	..	.	..	..
Euston...	b	70	41	0
Goulburn.	u	58	46	0·18
Wagga...	b	64	44	0
Cape Geo.	c	57	..	0·40
Queanb'an	b	62	47	0·41
Deniliquin	n	61	34	0·01
Albury...	b	68	37	0
Bodalla ..	p	67	41	0·11
Cooma...	c	58	41	0·06
Eden.....	b	62	51	0·01
Gabo Isld.	c	59	52	0·51

WEATHER MAP.

22 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 22 September..54·686.

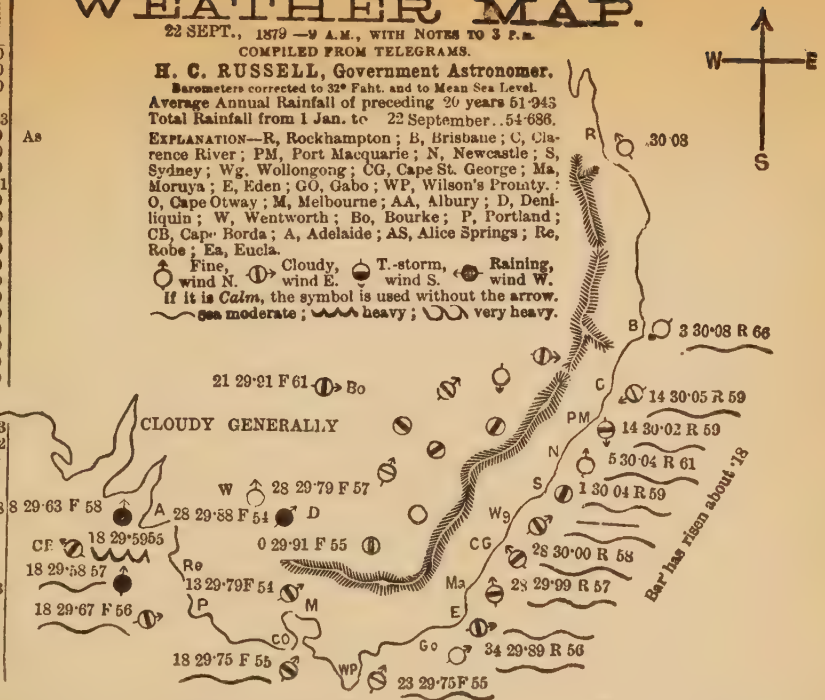
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg. Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.: O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	g	66	38	0
Grafton..	g	78	43	0
Inverell..	b	67	41	0
Walgett..	..	..	..	..
Bourke ..	c	79	47	0·03
Narrabri..	g	50	47	0
Armidale.	b	71	37	0
Gunnedah	g	74	41	0
Coonab'an	g	92	44	0·01
P. Macqrie	g	66	50	0
Murr'undi	c	64	46	0
Cassilis ..	u	74	46	0
Mus'brook	g	74	46	0
Dubbo...	u	66	57	0
Mudgee ..	g	72	51	0
Maitland .	c	69	..	0
Newcastle	b	74	54	0
Orange ..	g	63	38	0
Bathurst..	u	67	39	0
MtVictoria	g	62	36	0
Forbes...	g	62	50	0
Bendemeer	..	..	..	..
Sydney	g	61	54	0·13
Wntw'th	c	74	50	0 22
Wung...	g	65	49	0
Wol'gong	c	63	53	0
Moss Vale	..	..	..	..
Euston...	u	83	32	0·28
Goulburn.	b	68	47	0
Wagga...	g	71	44	0
Cape Geo.	c	62	..	0
Queanb'an	b	68	45	0
Deniliquin	r	70	34	0·03
Albury...	g	70	34	0
Bodalla ...	c	67	51	0
Cooma...	c	69	38	0
Eden.....	b	63	45	0
Gabo Isld.	b	61	50	0



WEATHER MAP.

23 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 23 September..54·686.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	63	47	0
Grafton..	b	73	42	0
Inverell..	b	64	51	0
Walgett..	..	..	..	..
Bourke ..	b	81	58	0
Narra'ri..	b	71	52	0
Armidale.	u	70	41	0
Gunnedah	b	76	48	0
Coonab'an	b	77	43	0
P. Macqrie	b	66	57	0
Murr'undi	u	63	50	0
Cassilis ..	b	67	49	0
Mus'brook	b	70	50	0
Dubbo...	b	68	62	0
Mudgee ..	b	57	49	0
Maitland .	b	68	..	0
Newcastle	b	69	54	0
Orange ..	c	62	42	0
Bathurst..	b	60	48	0
MtVictoria	u	58	42	0
Forbes...	b	65	47	0
Bendemeer	..	..	..	..
SYDNEY	b	64	55	0
Wentw'th	b	71	49	0·10
Young...	u	63	54	0·23
Woll'gong	b	66	56	0
Moss Vale	..	..	..	..
Euston...	b	74	53	0
Goulburn.	u	60	49	0
Wagga...	u	64	54	0
Cape Geo.	b	64	..	0·17
Queanb'an	b	62	52	0·14
Deniliquin	b	65	48	0·13
Albury...	c	64	51	0·15
Bodalla ..	b	67	49	0·01
Cooma...	b	61	46	0·07
Eden.....	b	61	55	0
Gabo Isld.	c	63	55	0

METEOROLOGICAL REPORTS.—SEPTEMBER 24

South Australia: Cloudy at Alice Springs, Adelaide, and Cape Borda; barometer turned, and commenced to fall at [illegible], wind generally between N. and N.W., heavy rain in the [illegible] about Alice Springs. Victoria: Cloudy weather at Wilson's Promontory, barometers still rising, wind N.W. on coast, with smooth and moderate seas; and W.N.W. at Melbourne. New South Wales: Cloudy at all stations, from West Maitland northward, raining lightly at Tenterfield, Inverell, Bourke, Narrabri, Moree, and Coonanbarabran; heavy fog at Bathurst; thunderstorm at Albury, 7 p.m. last night, with great fall of hail, smooth sea along the E. coast, wind generally between W. and N.W. Queensland: Showery at Brisbane, with S.E. wind, and rising barometer; at Cape Moreton, the wind was from W., with moderate E. swell; and from N.W. at Rockhampton; fine at Cooktown, with wind from N. 3 p.m. Observations.—Victoria: Melbourne, S.E., light, cloudy; Portland, W.S.W., strong breeze, fine, sea smooth; Cape Otway, W.N.W., light, cloudy, sea moderate; Wilson's Promontory, W., fresh, misty rain, sea smooth. New South Wales. Wentworth, N.W., fine, 68°; Deniliquin, calm, fine, 65°; Albury, calm, fine, temperature 61°; Goulburn, W., cloudy, temperature 63°; Forbes, calm, raining, temperature 59°; Eden, E.S.E., 14, like rain, light sea from N.E., temperature 59°, Moruya, N.E., fresh, cloudy, temperature 65°, sea moderate, Cape George, N., light, like storm, temperature 65°, sea smooth, Sydney, N.E., light, cloudy, dull, like thunderstorm, sea smooth Newcastle, N.E., light, cloudy, sultry, temperature 78°, sea smooth; Port Macquarie, N.W., light, temperature 66°, dull, sea, smooth; Clarence River, W., light, raining, temperature 65°, bar smooth. State of Rivers.—Murrumbidgee, at Hay, 19 feet above summer level; at Balranald, 14 feet 3 inches above summer level. Murray, at Albury, 11 feet above summer level; at Euston, 12 feet 8 inches above summer level. Darling, at Wentworth, 15 feet 5 inches above summer level; at Pooncarie, 21 feet 4 inches above summer level; at Menindie, 26 feet 2 inches above summer level; at Wilcannia, 32 feet 6 inches above summer level.

WEATHER MAP.

24 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 24 September..54·687.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	r	70	50	0·07
Grafton..	u	87	45	0
Inverell..	r	71	49	0·08
Walgett..	..	..	..	..
Bourke ..	r	84	59	0
Narrabri..	r	70	56	0
Armidale.	g	76	40	0
Gunnedah	o	85	58	0
Coonab'an	r	82	47	0
P. Macqrie	g	74	55	0
Murr'undi	g	70	54	0
Cassilis ..	g	75	46	0
Mus'brook	g	82	52	0
Dubbo...	g	71	54	0
Mudgee ..	g	76	52	0
Maitland .	b	75	..	0
Newcastle	b	79	57	0
Orange ..	b	64	36	0·11
Bathurst..	b	67	41	0·07
MtVictoria	b	62	43	0
Forbes...	g	63	48	0
Bendemeer	.	..	..	..
SYDNEY	c	74	55	0
Wentw'th	b	70	43	0
Young...	b	67	46	0
Woll'gong	b	73	54	0
Moss Vale	..	..	..	..
Euston...	b	80	39	0
Goulburn.	b	66	44	0
Wagga...	b	70	40	0
Cape Geo.	b	74	..	0
Queanb'an	b	65	43	0
Deniliquin	b	69	38	0·02
Albury...	b	64	42	0·25
Bodalla ..	b	84	48	0
Cooma...	b	61	38	0·02
Eden.....	b	65	54	0·21
Gabo Isld.	b	71	52	0·18

METEOROLOGICAL REPORTS.—September 25.

South Australia: Fine weather generally, with rough sea and falling barometers; wind moderate from the N.W., sultry; rain at Eucla, 0·05. Victoria: Fine, with moderate northerly winds and falling barometer; sea smooth at Wilson's Promontory and Portland, and rough at Cape Otway; rain at Portland, 0·01. New South Wales: Fine weather generally inland; cloudy at a few of the coast stations between Sydney and Moruya, and up N.W. near Armidale and Cassilis; smooth sea, falling barometers, and light S.S.W. winds and calms on the coast; see map for rain records. Queensland: Rockhampton, fine, N.W., rain 0·42; smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, barometer falling, N., 18, fine, temperature 69°; Portland, N.N.W., 34, showery, sea smooth; Cape Otway, N., 23, cloudy, temperature 67°, high sea; Wilson's Promontory, calm, fine, temperature 64°, sea smooth; New South Wales: Wentworth, W., fine, clear, temperature 73°; Albury, W., 14, fine, temperature 62°; Goulburn, calm, fine, temperature 63°; Forbes, calm, fine, temperature 63°; Eden, E.N.E., 14, fine, sea smooth, temperature 60°; Moruya, S.E., 20, fine, moderate sea, temperature 64°; Cape George, E., 14, fine, sea smooth, temperature 61°; Sydney, S.S.W., 8, fine, sea smooth, temperature 65°; Newcastle, S., 14, dull, sea smooth, temperature 72°; Clarence River, S., 42, sea smooth, temperature 69°. State of Rivers.—Murrumbidgee, at Wagga, 2 feet 2 inches above summer level; at Hay, 19 feet above summer level; at Balranald, 14 feet 4 inches above summer level. Murray, at Albury, 10 feet 5 inches above summer level; at Euston, 12 feet above summer level. Darling, at Wentworth, 15 feet 5 inches above summer level; at Pooncarie, 21 feet 4 inches above summer level; at Menindie, 26 feet 2 inches above summer level; at Wilcannia, 32 feet 9 inches above summer level.

WEATHER MAP.

25 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 25 September..54·828.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	p	57	50	1·55
Grafton..	b	66	45	0·58
Inverell..	c	65	53	1·01
Walgett..	..	..	..	..
Bourke ..	b	74	50	0·54
Narrabri..	u	64	56	0·66
Armidale.	u	72	39	0·92
Gunnedah	u	66	53	0·25
Coonab'an	u	65	53	0·43
P. Macqrie	b	69	58	0·06
Murr'undi	b	63	55	0·39
Cassilis ..	r	69	41	0·56
Mus'brook	b	81	55	0
Dubbo...	b	65	54	0·31
Mudgee ..	b	68	53	0·37
Maitland .	b	75	..	0
Newcastle	b	79	56	0
Orange ..	b	61	36	0·37
Bathurst..	u	60	45	0·27
MtVictoria	b	61	43	0
Forbes...	b	61	49	0·11
Bendemeer	.	..	..	..
SYDNEY	u	69	57	0·14
Wentw'th	b	70	41	0
Young...	b	67	43	0
Woll'gong	b	69	56	0
Moss Vale	..	..	..	..
Euston...	b	80	37	0
Goulburn.	u	66	45	0
Wagga...	b	70	42	0
Cape Geo.	r	70	..	0·22
Queanb'an	b	65	39	0
Deniliquin	b	66	36	0
Albury...	b	67	35	0
Bodalla ..	u	76	51	0·46
Cooma...	b	64	34	0
Eden....	b	62	49	0·01
Gabo Isld.	b	50	66	0

METEOROLOGICAL REPORTS.—SEPTEMBER 26.

South Australia: Cloudy weather generally; rain has been general south of Beltana; barometers rising, moderate westerly winds and rough sea; rain at Adelaide 0·10, and Eucla 0·05. Victoria: Cloudy and raining, sea smooth, light W. winds, barometers rising; rain at Melbourne 0·05; Wilson's Promontory 0·02, and Portland 0·22. New South Wales: Fair weather generally, but cloudy and raining down S.W. in Riverina, sea smooth, with mild N.E. and N.W. winds, and variable barometers on coast. Queensland: Cooktown, calm and dull, no rain; Rockhampton, wind inclining to N.W., smooth sea at Brisbane Heads. 3 p.m. Observations—New South Wales: Wentworth, cloudy, raining; Deniliquin, S.W., cloudy, raining, temperature 58°; Albury, calm, dull, temperature 59°; Goulburn, W., dull, temperature 62°; Forbes, calm, cloudy, temperature 59°; Eden, N.E., 14, dull, light, temperature 64°; Moruya, N.W., 20, cloudy, sea smooth, temperature 70°; Cape George, N.E., 82, cloudy, sea smooth, temperature 65°; Sydney, N.E., 8, cloudy, sea smooth, temperature 67°; Newcastle, N.W., 14, dull, sea smooth, temperature 7[illegible]; Port Macquarie, E., 14, dull, sea smooth, temperature 6[illegible]; Clarence River, N.E., 28, fine, sea smooth, temperature 7[illegible]. S[illegible] of Rivers.—Murrumbidgee, at Hay, 22 feet [illegible] inches above summer level; at Balranald, 17 feet 4 inches above summer level; Murray, at Albury, 10 feet 2 inches above summer level; at Euston, 12 feet 10 inches above summer level. Darling, at Wentworth, 15 feet 7 inches above summer level; at Pomaria, 21 feet 4 inches above summer level; at Menindie, 26 feet 3 inches above summer level; at Wilcannia, 31 feet 9 inches above summer level.

WEATHER MAP.

26 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 26 September..54·834.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	69	45	0·03
Grafton..	b	79	47	0
Inverell..	u	68	55	0
Walgett..	..	..	..	..
Bourke ..	u	65	54	0
Narrabri..	u	70	51	0
Armidale.	c	71	39	0·10
Gunnedah	c	75	43	0
Coonab'an	b	88	38	0
P. Macqrie	c	70	54	0
Murr'undi	c	65	50	0
Cassilis ..	b	73	40	0
Mus'brook	b	81	50	0
Dubbo...	b	70	48	0
Mudgee ..	b	75	45	0
Maitland .	b	73	..	0
Newcastle	b	70	54	0
Orange ..	b	64	32	0
Bathurst..	b	66	38	0
MtVictoria	b	65	29	0
Forbes...	b	65	51	0
Bendemeer	..	..	..	..
SYDNEY	b	67	53	0·01
Wentw'th	q	79	50	0·18
Young...	b	69	44	0
Woll'gong	b	64	53	0
Moss Vale	..	..	..	..
Euston...	u	66	53	0·03
Goulburn.	b	61	43	0
Wagga...	..	..	..	..
Cape Geo.	b	63	..	0
Queanb'an	b	67	41	0
Deniliquin	r	73	50	0·08
Albury...	r	70	42	0·08
Bodalla ..	b	72	43	0·03
Cooma...	n	68	31	0
Eden.....	o	63	49	0
Gabo Isld.	b	67	50	0

METEOROLOGICAL REPORT.—SEPTEMBER 27.

South Australia: Cloudy generally, with moderate S.W. and S. winds and rising barometers; squally and showery. At Adelaide, rain 0·17; Eucla, 0·01; Cape Borda, 0·15; and Robe, 0·06. Victoria: Cloudy and showery generally, with rough sea, fresh S.W. winds, and rising barometers; squally at Melbourne and Portland. The following are the rain measurements:—Melbourne, 0·51; Cape Otway, 0·18; and Portland, 0·10. New South Wales: Fine generally; cloudy between coast and range; squally but clear, with falling barometers, fresh S.W. winds, and smooth sea on coast; rough sea at Gabo Island. (For rain measurements see list in weather map.) 3 p.m. Observations.—Victoria: Melbourne, barometers rising slowly; Portland, S.W., 40, squally, with rain, sea smooth; Cape Otway, W., 40, gloomy, sea rough, temperature 54°; Wilson's Promontory, W.S.W., 34, passing showers, sea rough. New South Wales: Deniliquin, W., fine, temperature 61°; Albury, W., 10, cloudy, temperature 56°; Goulburn, W., like rain, temperature 56°; Forbes, S.W., 14, fine, temperature 55°; Eden, W.S.W., 20, fine, sea smooth, temperature 58°; Moruya, N.W., gloomy, sea moderate, temperature 63°; Cape George, S., 20, fine, sea moderate, temperature 56°; Sydney, W., 14, passing squalls, sea smooth, temperature 60°; Newcastle, W.S W., 10, squally with rain, sea rising, temperature 59°; Port Macquarie, S.W., 30, sea smooth, temperature 66°; Clarence River, W., 20, fine, sea smooth, temperature 69°. State of Rivers.—Murrumbidgee, at Wagga, 2 feet above summer level; at Hay, 22 feet 9 inches above summer level; at Balranald, 17 feet above summer level. Murray, at Euston, 12 feet 10 inches above summer level. Darling, at Wentworth, 15 feet 8 inches above summer level; at Pooncarie, 21 feet 4 inches above summer level; at Menindie, 26 feet 3 inches above summer level; at Wilcannia, 32 feet 9 inches above summer level.

WEATHER MAP.

27 SEPT., 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

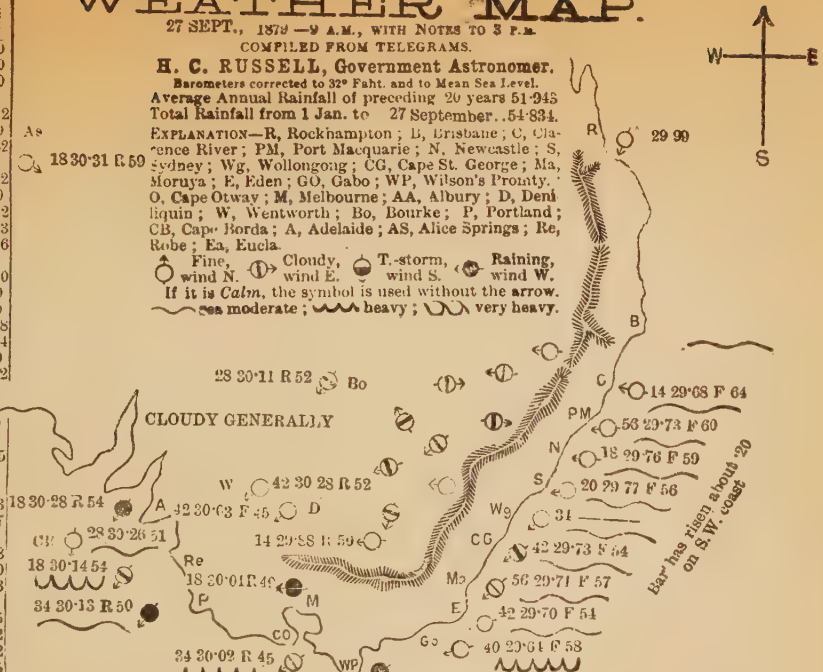
Total Rainfall from 1 Jan. to 27 September..54·834.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'ther	Max	Min	Rain
Tenterfi'ld	b	67	45	0
Grafton..	b	79	46	0
Inverell..	b	65	53	0
Walgett..	..	..	..	..
Bourke ..	c	69	43	0·12
Narrabri..	c	70	51	0
Armidale.	b	70	30	0·32
Gunnedah	..	..	..	..
Coonab'an	p	68	42	0·32
P. Macqrie	b	70	56	0
Murr'undi	c	62	46	0·12
Cassilis ..	u	67	34	0·23
Mus'brook	b	80	47	0 16
Dubbo...	..	..	..	..
Mudgee ..	u	72	45	0·20
Maitland .	b	75	..	0
Newcastle	b	76	51	0
Orange ..	g	62	29	0·78
Bathurst..	u	62	40	0·24
MtVictoria	c	64	35	0
Forbes...	g	60	42	0·12
Bendemeer	..	..	..	..
SYDNEY	c	70	51	0
Wentw'th	..	..	..	..
Young...	g	65	45	0·35
Woll'gong	b	68	50	0
Moss Vale	..	..	..	..
Euston...	b	76	36	0·13
Goulburn.	u	68	39	0·17
Wagga ..	o	58	42	0
Cape Geo.	b	67	..	0·68
Queanb'an	b	64	41	0·20
Deniliquin	b	57	33	0·23
Albury...	.	..	..	..
Bodalla ..	q	77	42	0·25
Cooma...	q	61	34	0·12
Eden....	b	65	47	0·42
Gabo Isld.	q	66	45	0·25

WEATHER MAP.

29 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 29 September..54·834.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	b	60	37	0
Grafton..	b	80	34	0
Inverell..	b	59	36	0
Walgett..	..	.	..	..
Bourke ..	b	72	50	0
Narrabri..	b	67	44	0
Armidale.	b	66	31	0
Gunnedah	b	77	32	0
Coomb'an	b	77	37	0
P. Macqrie	b	69	48	0
Murr'undi	u	62	43	0
Cassilis ..	b	65	41	0
Mus'brook	b	72	42	0
Dubbo...	b	67	42	0
Mudgee ..	b	70	43	0
Maitland .	b	70	..	0
Newcastle	b	71	52	0
Orange ..	c	53	30	0
Bathurst..	b	56	38	0
MtVictoria	b	54	34	0
Forbes...	b	64	47	0
Bendemeer	.	..	..	..
SYDNEY	b	68	53	0
Wentw'th	b	67	40	0
Young...	b	60	42	0
Woll'gong	b	68	51	0
Moss Vale	..	.	..	..
Euston...	b	78	36	0
Goulburn.	b	57	38	0·62
Wagga ..	.	.	.	..
Cape Geo.	b	61	..	0
Queanb'an	b	64	38	0·11
Deniliquin	u	63	35	0
Albury...	b	54	..	0·05
Bodalla ..	b	73	36	0·02
Cooma...	b	64	28	0·02
Eden.....	b	64	46	0·03
Gabo Isld.	..	..	..	..

METEOROLOGICAL REPORTS.—September 30.

South Australia reports cloudy showery weather, sea smooth, barometer steady, wind light and variable; rain at Eucla 0·01, and Robe 0·20. Victoria: Cloudy; showery at Portland; sea very high ar Wilson's Promontory; strong S.W. winds and steady barometers; rain at Cape Otway, 0·04; Portland, 0·09; and Wilson's Promontory, 0·13. New South Wales: Fine weather, with fresh S.W. and W. winds, prevails all over colony; bars very steady, and sea gene- rally light and moderate. No station reports rain. Sea rough at Gabo Island. Queensland: Rockhampton, fine; moderate S.E. swell at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers steady. Melbourne, S., 18, cloudy, temperature 53°; Portland, S.S.W., 28, dull, slight sea, temperature 56°; Cape Otway, S.W., 18, cloudy, moderate sea, temperature 51°; Wilson's Promontory, W.S.W., 48, cloudy, high sea, temperature 56°. New South Wales: Wentworth, S.S.E., cloudy, temperature 66°; Deniliquin, S.W., dull, temperature 63°; Albury, W., 14, cloudy, temperature 59°; Goulburn, W., fine, temperature 57°; Forbes, calm, cloudy, temperature 60°; Eden, S.W., 28, fine, slight sea, temperature 62°; Moruya, N.E., 42, fine, moderate sea, temperature 62°; Cape George, S.E., 14, fine, slight sea, temperature 60°; Sydney, S.E., 8, fine, smooth sea, temperature 62°; Newcastle, N.W., 14, fine, little sea, temperature 58°. State of Rivers.—Murrumbidgee, at Wagga, 15 feet 6 inches above summer level; at Hay, 21 feet above summer level; at Balranald, 13 feet 6 inches above summer level. Murray, at Albury, 11 feet 6 inches above summer level; at Euston, 21 feet 11 inches above summer level. Darling, at Wentworth, 27 feet 10 inches above summer level; at Pooncarie, 12 feet 5 inches above summer level; at Menindie, 26 feet 4 inches above summer level; at Wilcannia, 32 feet 9 inches above summer level.

WEATHER MAP.

30 SEPT., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 30 September..54·835.

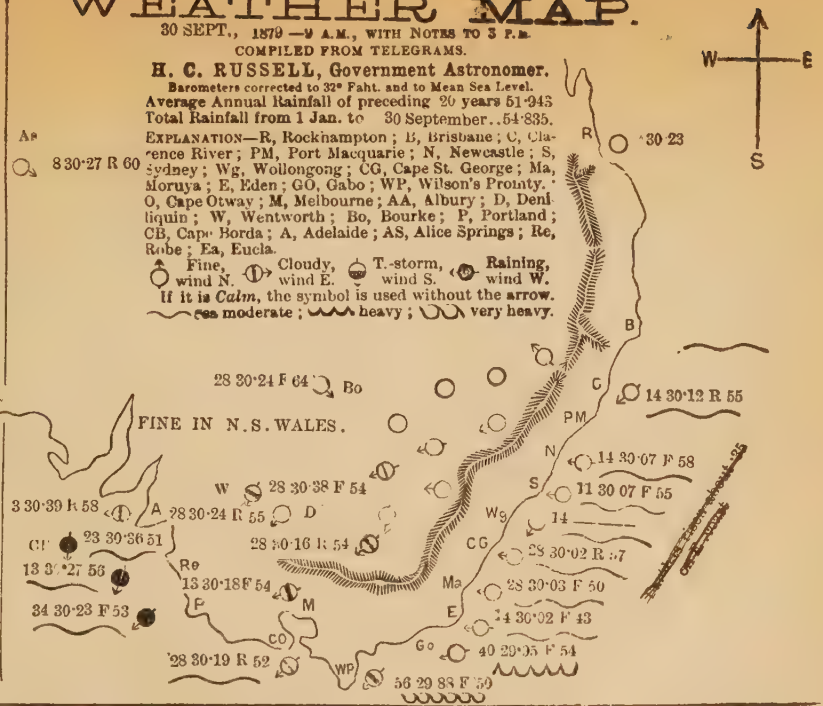
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	62	36	0
Grafton..	b	78	45	0
Inverell..	b	61	38	0
Walgett..	..	..	..	..
Bourke ..	b	75	46	0
Narra'bri..	b	70	45	0
Armidale.	b	68	34	0
Gunnedah	b	76	35	0
Coonab'an	b	76	34	0
P. Macqrie	.	..	..	..
Murr'undi	b	62	42	0
Cassilis ..	b	61	39	0
Mus'brook	b	73	41	0
Dubbo...	b	65	47	0
Mudgee ..	b	71	41	0
Maitland .	b	68	..	0
Newcastle	b	60	46	0
Orange ..	b	55	29	0
Bathurst..	b	58	34	0
MtVictoria	b	56	34	0
Forbes...	b	65	48	0
Bendemeer	...	.	.	...
SYDNEY	b	61	46	0
Wentw'th	b	67	42	0
Young...	u	64	38	0
Woll'gong	b	59	49	0
Moss Vale	..	.	..	..
Euston...	..	.	..	..
Goulburn.	b	60	37	0
Wagga...	u	61	42	0
Cape Geo.	b	59	..	0
Queanb'an	b	64	37	0
Deniliquin	b	63	41	0
Albury...	u	64	38	0
Bodalia ..	b	75	44	0
Cooma...	n	59	26	0
Eden.....	b	60	45	0
Gabo Isld.	..	.	..	.



METEOROLOGICAL REPORTS.—October 1.

South Australia: Cloudy, light variable winds, smooth sea, and rising barometers; no rain. Victoria: Cloudy, light rain at Melbourne, moderate S.W. winds, smooth sea, and rising barometers; rain at Melbourne 0·02. New South Wales: Fine generally, rising barometers, fresh S.W. winds and moderate sea on coast; fine, with falling barometers on coast. Queensland: Brisbane, fine and warm, sea moderate; Cooktown, calm and gloomy. 3 p m. Observations.—Victoria: Melbourne, S.S.W. wind, 13, cloudy weather, temperature 53°; Portland, no report; Cape Otway, W.S.W., 13, cloudy, moderate sea, temperature 52°; Wilson's Promontory, W., 23, cloudy, smooth sea, temperature 52°. New South Wales: Wentworth, S.E., fine, temperature 66°; Deniliquin, S.S.W., 14, fine, temperature 62°; Albury, calm, fine, temperature 60°; Goulburn, SW., fine, temperature 61°; Forbes, calm, fine, temperature 62°; Eden, S.W., 28, fine, little sea, temperature 58°; Moruya, S.E., 42, fine, moderate sea, temperature 57°; Cape George, S.S.E., 42, fine, moderate sea, temperature 56°; Sydney, S.S.E., 14, fine, smooth sea, temperature 58°; Newcastle, S., 20, cloudy, little sea, temperature 58°; Port Macquarie, S., 56, fine, moderate sea, temperature 64°; Clarence River, S., fine, smooth sea, temperature 66°. State of Rivers.—Murrumbidgee, at Wagga, 10 feet 9 inches above summer level; at Hay, 24 feet 2 inches above summer level; at Balranald, 13 feet 7 inches above summer level. Murray, at Albury, 1 foot 5 inches above summer level; at Euston, 12 feet 11 inches above summer level.

WEATHER MAP.

1 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 1 October ....54·844.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weather	Ma	Min	Rain
Tenterfield	b	63	43	0
Grafton..	b	86	37	0
Inverell..	b	64	37	0
Walgett..	..	..	..	..
Bourke ..	b	75	45	0
Narrabri..	b	69	51	0
Armidale .	c	67	31	0
Gunnedah	b	78	38	0
Coonab'an	b	68	30	0
P. Macqrie	b	70	47	0
Murr'undi	b	63	45	0
Cassilis ..	b	66	..	0
Mus'brook	b	73	41	0
Dubbo...	b	65	47	0
Mudgee ..	u	7.	49	0
Maitland .	b	70	..	0
Newcastle	b	73	48	0
Orange ..	c	54	31	0
Bathurst..	u	57	31	0
MtVictoria	b	55	33	0
Forbes...	b	63	49	0
Bendemeer	..	..	..	..
SYDNEY	u	67	48	0·01
Wentw'th	b	67	42	0
Young...	c	57	40	0
Woll'gong	b	64	47	0
Moss Vale	..	..	..	..
Euston...	b	64	43	0
Goulburn.	b	58	34	0
Wagga ..	b	67	41	0
Cape Geo.	b	64	..	0·17
Queanb'an	b	64	36	0
Deniliquin	b	64	35	0
Albury...	..	..	..	..
Bodalla ..	b	65	40	0·02
Cooma...	p	63	32	0
Eden.....	b	65	47	0
Gabo Isld.	c	57	44	0·24

METEOROLOGICAL REPORTS.—October 2.

South Australia, fine and calm, sea smooth, barometers steady, no rain. Victoria: Cloudy, showery at Wilson's Promontory and Cape Otway, sea smooth, barometers steady, wind generally light from the west; rain at Melbourne, 0·01; Portland, 0·05; and Wilson's Promontory, 0·07. New South Wales: Fine throughout, with light variable winds, sea smooth and barometers rising; rain at Cape St. George only, measuring 0·07. Queensland: Sea moderate at Cape Moreton; Cooktown squally and showery. 3 p.m. Observations.—New South Wales: Deniliquin, S.W., 14, fine, temperature 63·; Albury, calm, fine, temperature 61·; Goulburn, W., 14, fine, temperature 64·; Forbes, calm, fine, temperature 61·; Eden, N.E., 14, fine, light sea, temperature 60·; Moruya, N.E., 42, fine, moderate sea, temperature 61·; Cape George, N.E., 28, fine, smooth sea, temperature 60·; Sydney, E.N.E., 8, fine, smooth sea, temperature 61·; Newcastle, E.W.E., 14, fine, no sea, temperature 70·; Port Macquarie, S.E., 28, fine, moderate sea, temperature 45·. State of Rivers.—Murrumbidgee, at Wagga, 14 feet 3 inches above summer level; at Hay, 23 feet 6 inches above summer level; at Balranald, 14 feet 3 inches above summer level. Murray, at Albury, 9 feet 9 inches above summer level; at Euston, 12 feet 11 inches above summer level. Darling, at Wentworth, 16 feet 3 inches above summer level; at Pooncarie, 21 feet 5 inches above summer level; at Menindie, 26 feet 5 inches above summer level; at Wilcannia, 32 feet 10 inches above summer level.

WEATHER MAP.

2 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 2 October ....54·844.

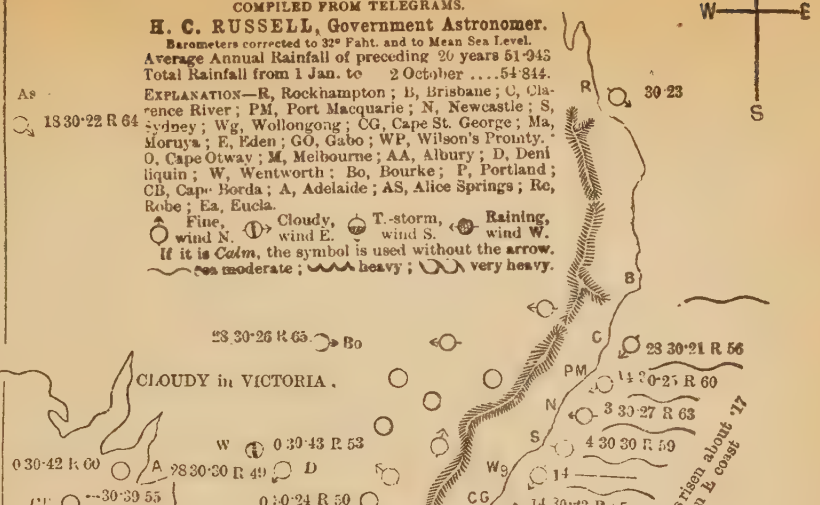
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	b	60	38	0
Grafton..	b	75	34	0
Inverell..	.	.	..	..
Walgett..	..	.	..	..
Bourke ..	b	75	47	0
Narrabri..	b	68	43	0
Armidale.	b	68	32	0
Gunnedah	b	77	34	0
Coonab'an	b	68	32	0
P. Macqrie	b	67	48	0
Murr'undi	b	63	40	0
Cassilis ..	..	..	..	..
Mus'brook	b	77	43	0
Dubbo...	b	69	44	0
Mudgee ..	b	7-	60	0
Maitland .	b	66	..	0
Newcastle	b	73	47	0
Orange ..	b	57	27	0
Bathurst..	b	60	34	0
MtVictoria	c	63	38	0
Forbes...	b	65	47	0
Bendemeer	..	..	..	..
		Ea		
SYDNEY	b	60	50	0
Wentw'th	b	64	36	0
Young...	b	62	38	0
Woll'gong	b	60	50	0
Moss Vale	..	.	..	..
Euston...	b	71	40	0
Goulburn.	b	71	40	0
Wagga...	b	68	40	0
Cape Geo.	c	56	..	0·07
Queanb'an	b	66	34	0
Deniliquin	b	62	34	0
Albury...	b	67	32	0
Bodalla ..	p	70	42	0
Cooma...	p	60	29	0
Eden.....	b	60	46	0
Gabo Isld.	b	55	45	0



METEOROLOGICAL REPORTS.—October 3.

South Australia: Fine weather throughout, with light variable winds, smooth sea, and steady barometers; no rain. Victoria: Fine weather generally, light clouds on coast line, with smooth sea, rising barometers, and moderate S.W. winds. New South Wales: Fine and clear throughout, sea smooth, barometers falling, and light variable southerly and westerly winds on coast. No rain measured. Queensland: Light misty rain falling at Rockhampton; showery at Cooktown, rain measured 0.84; sea smooth at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, S.W., 13, fine weather, temperature 58°; Porltand, S.E., 18, dull, smooth sea, temperature 56°; Cape Otway, S., 8, cloudy, moderate, temperature 58°; Wilson's Promontory, W., 23, fine, moderate, temperature 56° New South Wales: Wentworth, S.W., cloudy, temperature 72.; Deniliquin, S.W., 14, fine, temperature 66°; Albury, calm, fine, temperature 62°; Goulburn, calm, fine, temperature 62°; Forbes, calm, fine, temperature 64°; Eden, S.W., 28, fine, sea smooth, temperature 64°; Moruya, S.E., 28, fine, moderate sea, temperature 61°; Cape George, S.E., 28, fine, sea smooth, temperature 61°; Sydney, S.E., 8, fine, sea smooth, temperature 63°; Newcastle, S.E., 8, fine, sea smooth, temperature 70°; Port Macquarie, N.E., 28, dull, sea smooth, temperature 66°; Clarence River, S., 14, fine, sea smooth, temperature 67°. State of Rivers.—Murrumbidgee, at Hay, 23 feet 4 inches above summer level; at Balranald, 14 feet 5 inches above summer level. Murray, at Albury, 9 feet 3 inches above summer level; at Euston, 13 feet above summer level. Darling, at Wentworth, 16 feet 1 inche above summer level; at Pooncarie, 21 feet 5 inches above summer level; at Menindie, 26 feet 5 inches above summer level; at at Wilcannia, 32 feet 11 inches above summer level.

WEATHER MAP.

3 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 3 October ....54·844.

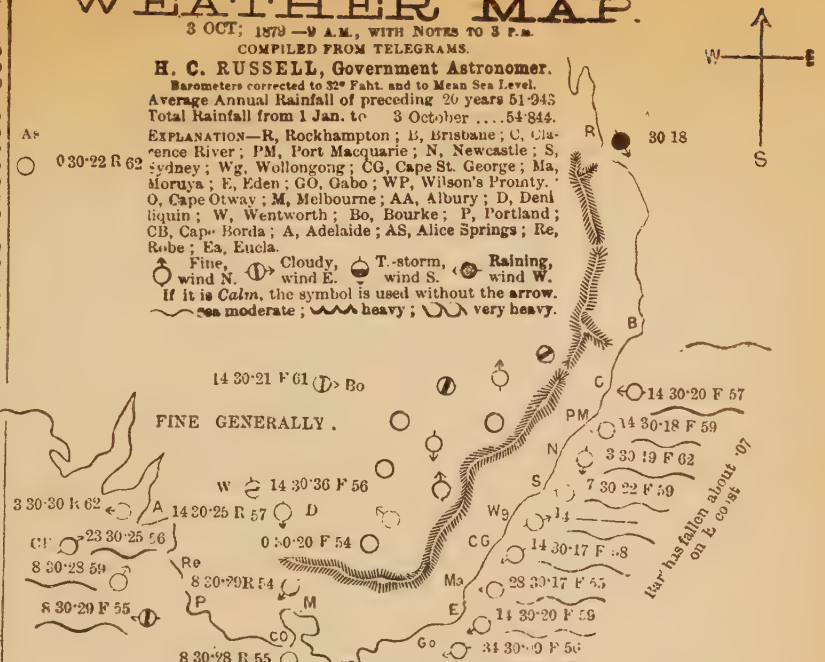
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weather	Max	Min	Rain
Tenterfi'ld	b	66	41	0
Grafton..	b	79	36	0
Inverell..	b	66	42	0
Walgett..	..	..	..	..
Bourke ..	b	78	49	0
Narra'ri..	c	76	48	0
Armidale.	b	72	43	0
Gunnedah	u	79	37	0
Coonab'an	b	82	36	0
P. Macqrie	b	66	47	0
Murr'undi	b	64	44	0
Cassilis ..	..	..	..	..
Mus'brook	b	75	43	0
Dubbo...	b	65	47	0
Mudgee ..	b	75	42	0
Maitland .	b	63	..	0
Newcastle	b	68	47	0
Orange ..	b	62	30	0
Bathurst..	b	65	35	0
MtVictoria	b	61	35	0
Forbes...	b	63	49	0
Bendemeer	..	..	..	..
SYDNEY	b	63	49	0
Wentw'th	b	68	44	0
Young...	b	63	40	0
Woll'gong	b	64	47	0
Moss Vale	..	..	..	..
Euston...	b	82	42	0
Goulburn.	b	66	34	0
Wagga ..	u	71	40	0
Cape Geo.	b	61	..	0
Queanb'an	b	67	38	0
Deniliquin	b	68	37	0
Albury...	b	69	36	0
Bodalla ..	b	73	42	0
Cooma...	b	67	35	0
Eden.....	b	65	48	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—OCTOBER 4.

South Australia: Fine at all stations except Adelaide, barometers steady, light N. and N.E. winds and smooth sea, no rain. Victoria: Fine at Melbourne and Portland, cloudy at Cape Otway and Wilson's Promontory, sea smooth, wind E. and N., barometers steady and falling, no rain. New South Wales: Fine generally, cloudy on coast with smooth sea, rising barometer and light S.E. and S.W. winds; inland the weather is fine and clear with falling barometers; rain at Newcastle 0·29, and Albury 0·18. Queensland: Rockhampton, wind S.E., raining lightly, measure 0·08; Cooktown, dull and squally from E.S.E., rain measure 0·04, smooth sea at Cape Moreton. 3 p.m Observations.—Victoria: Melbourne, barometer falling slowly; Portland, S.E., 13, fine, sea smooth, temperature 61°; Cape Otway, E., 8, cloudy, sea smooth, temperature 59°; Wilson's Promontory, N.E., 23, fine, sea smooth, temperature 62°. New South Wales: Wentworth, N., fine, clear, temperature 75°; Deniliquin, calm, fine, temperature 70°; Albury, calm, fine, temperature 62°; Goulburn, calm, fine, temperature 64°; Forbes, calm, cloudy, temperature 69°; Eden, E.N.E., 14, fine, smooth sea, temperature 59°; Moruya, N.E., 3, cloudy, temperature 62°; Cape George, E.N.E., 14, fine, smooth sea, temperature 62°; Sydney, E., 14, fine, temperature 61°; Newcastle, S.E., 10, cloudy, smooth sea, temperature 65°; Port Macquarie, N.E., 14, cloudy, smooth sea, temperature 67°; Clarence River, E.S.E., 14, smooth sea, temperature 65°. State of Rivers.—Murrumbidgee, at Wagga, 12 feet above summer level; at Hay, 23 feet above summer level; at Balranald, 14 feet 6 inches above summer level. Murray, at Albury, 9 feet above summer level; at Euston, 13 feet above summer level. Darling, at Wentworth, 15 feet 2 inches above summer level; at Pooncarie, 21 feet 5 inches above summer level; at Menindie, 26 feet 6 inches above summer level; at Wilcannia, [illegible] above summer level.

WEATHER MAP.

4 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 4 October ....54·845.

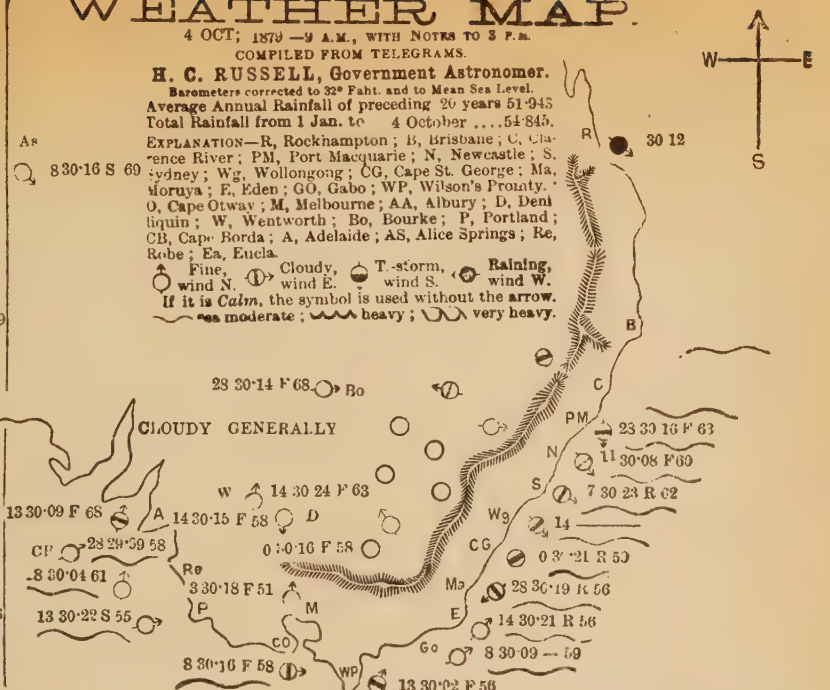
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	66	47	0
Grafton..	c	79	43	0
Inverell..	..	..	..	..
Walgett..	..	..	..	..
Bourke..	b	80	51	0
Narrabri..	b	70	47	0
Armidale.	c	74	44	0
Gunnedah	.	..	..	..
Coonab'an	b	90	36	0
P. Macqrie	u	70	51	0
Murr'undi	b	66	47	0
Cassilis ..	b	74	..	0
Mus'brook	b	79	51	0
Dubbo...	b	69	49	0
Mudgee ..	u	75	51	0
Maitland .	u	74	..	0
Newcastle	c	68	57	0·29
Orange ..	b	63	34	0
Bathurst..	b	67	41	0
MtVictoria	c	66	39	0
Forbes...	b	66	50	0
Bendemeer	..	..	..	.
SYDNEY	u	68	56	0
Wentw'th	b	75	47	0
Young...	b	66	44	0
Woll'gong	c	63	55	0
Moss Vale	..	.	..	..
Euston...	b	81	46	0
Goulburn.	u	68	47	0
Wagga ..	b	73	47	0
Cape Geo.	u	62	..	0
Queanb'an	b	72	47	0
Deniliquin	b	71	38	0
Albury...	b	54	.	0·16
Bodalla ..	p	76	45	0
Cooma...	..	70	43	0
Eden.....	u	66	52	0
Gabo Isld.	b	63	48	0



METEOROLOGICAL REPORTS.—OCTOBER 6.

South Australia: Fine generally, with light N.W. wind, smooth sea, and rising barometers; rain at Adelaide 0·40, Cape Borda 0·40, and Robe 0·05; dull, with heavy rain in north of colony. Victoria: Cloudy, fresh N.W. and N. winds, sea smooth, barometers steady; Portland alone records rain measuring 0·05. New South Wales: Fine at all the stations north of the 35th parallel of latitude; cloudy generally at southern stations, sea smooth, barometers falling, and light N.E. breezes at all the coast stations. Queensland: Fine at Rockhampton, with light S.E. winds; smooth sea at Cape Moreton; Cooktown, E.S.E., 13, fine. 3 p.m. Observations.—Victoria: Melbourne, N.E. wind, 13, showery weather, temperature 58°; Portland, W., 34, squally, showery, sea smooth, temperature 57°; Cape Otway, N.W., 28, showery, sea slight, temperature 57°; Wilson's Promontory, W., 13, showery sea smooth, temperature 58°. New South Wales: Wentworth, N.W., raining, temperature 68°; Deniliquin, N.N.W., 14, cloudy, temperature 71°; Albury, N., 14, cloudy, temperature 64°; Goulburn, calm, dull, temperature 68°; Forbes, N.E., cloudy, temperature 68°; Eden, N.E., 14, dull, sea smooth, temperature 64°; Moruya, N.E., 42, fine, sea smooth, temperature 66°; Cape George, N.E., 20, fine, sea smooth, temperature 67°; Sydney, N.E., 8, cloudy, sea smooth, temperature 69°; Newcastle, N.E., fine, sea smooth, temperature 72°; Port Macquarie, N.E., 42, fine, sea smooth, temperature 67°; Clarence River, S.E., 28, fine, sea smooth, temperature 68°. State of Rivers.—Murrumbidgee, at Wagga, 10 feet 6 inches above summer level. Murray, at Albury, 7 feet 5 inches above summer level. Darling, at Wentworth, 16 feet above summer level; at Pooncarie, 21 feet 5 inches above summer level; at Menindie, 26 feet 6 inches above summer level; at [illegible] 43 feet 3 inches above summer level.

WEATHER MAP.

6 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 6 October ....54·845.

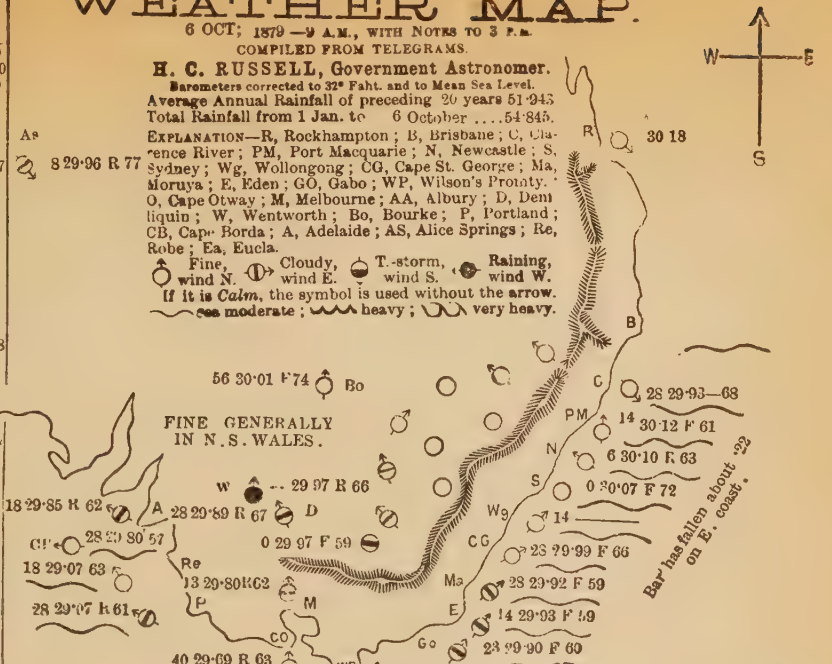
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weath'r	Max	Min	Rain
Tenterfi'ld	b	66	37	0
Grafton..	b	82	41	0·10
Inverell..	b	69	43	0
Walgett..	..	..	..	..
Bourke ..	b	89	62	0
Narra'uri..	b	75	51	0
Armidale.	b	72	41	0
Gunnedah	b	86	40	0·07
Coonab'an	b	74	38	0
P. Macqrie	b	68	50	0
Murr'umdi	b	64	45	0
Cassilis ..	b	73	..	0
Mus'brook	b	82	44	0
Dubbo...	b	72	49	0
Mudgee ..	b	76	47	0
Maitland .	b	71	..	0
Newcastle	b	68	51	0
Orange ..	b	66	35	0
Bathurst..	b	67	28	0·08
Mt Victoria	b	65	38	0
Forbes...	b	68	51	0
Bendemeer	..	..	..	..
SYDNEY	b	66	54	0
Wentw'th	r	86	62	0·08
Young...	c	70	46	0
Woll'gong	b	68	52	0
Moss Vale	..	..	..	..
Euston...	..	..	..	..
Goulburn.	b	73	40	0
Wagga ..	u	77	47	0
Cape Geo.	b	67	..	0
Queanb'an	b	72	43	0
Deniliquin	u	80	43	0·01
Albury...	u	78	39	0
Bodalla ..	c	67	40	0·01
Cooma...	c	71	37	0
Eden.....	u	64	54	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—October 7.

South Australia: Cloudy generally; showery at Cape Borda, sea smooth, bars rising, wind light from S.W. and N., and calm; rain at Adelaide 0·18, Robe 0·12, and Cape Borda 0·05. Victoria; Cloudy and calm; light rain at Melbourne, sea smooth, bars rising. The following are the rain measurements:—Melbourne 0·74, Cape Otway 0·22, Portland 0·16, and Wilson's Promontory 0·26. New South Wales: Cloudy generally, rain down S.W. in Riverina district and on coast at Gabo Island (for measurement see weather map), weather generally fine N. of Newcastle, light N.E. winds, smooth sea, and falling barommeter on coast. Queensland: Smooth sea at Brisbane Heads; Cooktown, calm sultry and overcast, rain 0·15 3 p.m. Observations.—Victoria: Melbourne, S.E. 8, light rain, temperature 50°; Portland, S.S.W. 23, fine, sea smooth, temperature 57°; Cape Otway, S.E., 8, dull, moderate, temperature 55°; Wilson's Promontory, S.S.E. 12, raining, sea moderate, temperature 49°. New South Wales: Wentworth, S., fine, temperature 69°; Deniliqun, S.W., raining, temperature 66°, Albury, N.E., 14, raining, 62°; Goulburn, N.W., strong, fine, 6[illegible], Forbes, N.W., cloudy, 67°; Eden, S.W., 14, dull, sea light [illegible]; Moruya, S.W., 12, dull, sea moderate, 65°; Cape George, N.E., cloudy, sea light, 67°; Sydney, N.N.E., 11, cloudy, 75°; N[illegible], N.E., fresh, fine, sea smooth, 77°; Port Macquarie, N.N.E. [illegible] smooth, 71°; Clarence River, N.E., 42, cloudy, sea sm[illegible], 6[illegible] State of Rivers: Murrumbidge, at Hay, 23 feet above [illegible] level; at Balranald, 14 feet 11 inches above [illegible] Murray, at Albury, 7 feet 3 inches above summer leve[illegible] ton, 13 feet 6 inches above summer level. Del[illegible] worth, 16 feet 4 inches above summer level; at Po[illegible] 5 inches above summer level; at Menindie, 26 feet [illegible] summer level; at Wilcannia, 33 feet 2 inches above [illegible]

WEATHER MAP.

7 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 7 October ....54·845.

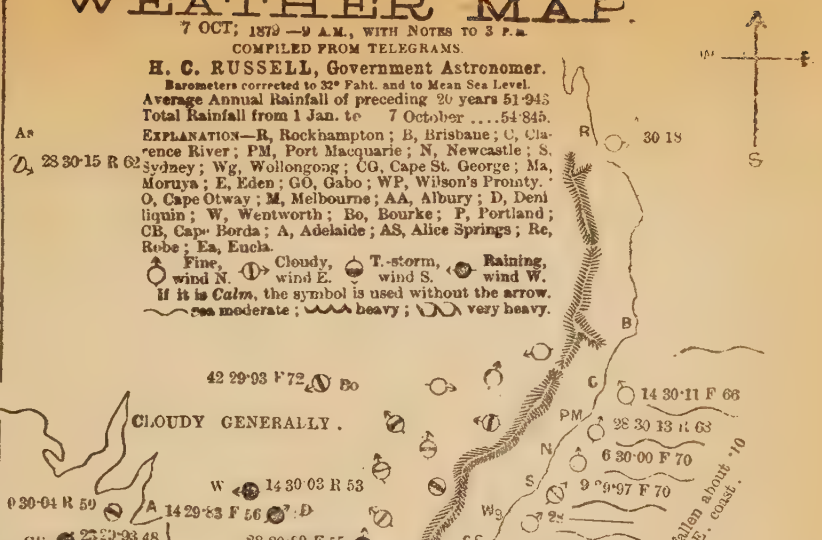
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	b	72	45	0
Grafton..	b	75	43	0
Inverell..	b	71	43	0
Walgett..	..	..	..	..
Bourke ..	c	94	61	0
Narrabri..	b	75	58	0
Armidale.	b	77	35	0
Gunnedah	u	87	50	0
Coonab'an	c	82	45	0
P. Macqrie	b	70	57	0
Murr'undi	b	71	54	0
Cassilis ..	c	81	..	0
Mus'brook	b	88	51	0
Dubbo...	u	75	56	0
Mudgee ..	u	80	53	0
Maitland .	b	72	..	0
Newcastle	b	72	51	0
Orange ..	u	70	43	0
Bathurst..	u	74	47	0
MtVictoria	u	70	51	0
Forbes...	b	70	60	0
Bendemeer	..	..	..	..
SYDNEY	c	73	61	0
Wentw'th	u	65	49	0·79
Young...	u	75	48	0
Woll'gong	b	70	60	0
Moss Vale	..	..	..	..
Euston...	r	66	50	0·60
Goulburn.	u	78	52	0
Wagga...	r	73	52	0
Cape Geo.	b	66	..	0
Queanb'an	u	75	51	0
Deniliquin	r	73	49	0
Albury...	r	70	52	0·77
Bodalla ..	f	75	46	0
Cooma...	c	74	51	0
Eden.....	u	65	54	0·01
Gabo Isld.	d	67	56	0·10



METEOROLOGICAL REPORTS.—October 8.

South Australia: Fine with light clouds, barometers rising, sea smooth, wind very variable; rain at Adelaide 0·01, ditto at Cape Borda and Robe. Victoria: Cloudy but not raining; light S. winds and rising barometers, sea slight. Rain records:—Melbourne 0·22, Cape Otway 0·65, Wilson's Promontory 0·30, and Portland 0·05. New South Wales: Rain generally in the coast and mountain districts but fine to west and south-west; heavy sea at Gabo, but sea generally smooth on the coast. Queensland: Raining lightly with S.E. wind at Rockhampton, Cooktown fine and clear, Cape Moreton moderate E. sea. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 18, fine, temperature 55°; Portland, S., 23, fine, sea smooth, temperature 57°; Cape Otway, S., 8, cloudy, sea smooth, temperature 51°; Wilson's Promontory, S.S.E., 18, fine, slight sea, temperature 59° New South Wales: Wentworth, S.W., 14, fine, temperature 67°; Deniliquin, S.S.W., 28, fine, temperature 61°; Albury, W., 14, cloudy, temperature 59°; Goulburn, S.W., raining, temperature 58°; Forbes, calm, dull, temperature 66°; Eden, S.W., 28, raining, light sea, temperature 53°; Moruya, S.W., 56, raining, moderate, temperature 52°; Cape George, S., 42, raining, moderate, temperature 56°; Sydney, S.W., 8, dull, smooth, temperature 55°; Newcastle, S.W., 14, showery, smooth, temperature 62°; Port Macquarie, N., 14, dull, moderate, temperature 68.; Clarence River, N.W., 28, fine, smooth, temperature 67°. State of Rivers: Murrumbidgee, at Hay, 22 feet 9 inches above summer level; at Balranald, 13 feet 11 inches above summer level. Murray, at Albury, 7 feet 3 inches above summer level; at Euston, 23 feet 4 inches above summer level. Darling, at Wentworth, 16 feet 5 inches above summer level; at Pooncarie, 21 feet 5 inches above summer level; at M[illegible] feet 8 inches above summer level; at Wilcannia, 33 feet 3 [illegible] above summer level.

WEATHER MAP.

8 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

Total Rainfall from 1 Jan. to 8 October ....55·863.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is Calm, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	73	52	0·30
Grafton..	c	86	51	0·08
Inverell..	r	72	55	0·60
Walgett..	..	..	..	..
Bourke ..	b	58	50	0
Narra'ri..	u	79	57	0·60
Armidale.	u	73	50	0·13
Gunnedah	u	87	58	0·31
Coonab'an	u	78	48	0·90
P. Macqrie	r	73	62	0·01
Murr'undi	r	73	56	0·40
Cassilis ..	u	79	..	0·50
Mus'brook	u	78	56	0·35
Dubbo...	u	76	54	1·47
Mudgee ..	u	77	53	0·82
Maitland .	r	83	..	0·51
Newcastle	r	76	52	0·36
Orange ..	u	71	36	1·85
Bathurst..	r	72	47	1·23
MtVictoria	u	71	43	0·49
Forbes...	u	68	36	0·52
Bendemeer	..	..	..	..
0 30·26 61 Ea				
SYDNEY	r	81	57	1·02
Wentw'th	b	63	40	0·05
Young...	r	68	48	1·20
Woll'gong	r	71	56	1·09
Moss Vale	..	..	..	..
Euston...	b	70	53	0·15
Goulburn.	p	74	43	0·95
Wagga ..	r	73	47	0·76
Cape Geo.	r	66	..	0·43
Queanb'an	p	70	43	0·94
Deniliquin	b	56	39	0·24
Albury...	p	58	45	0·66
Bodalla ..	r	58	42	0·50
Cooma...	r	67	35	1·00
Eden.....	r	60	50	0·10
Gabo Isld.	r	61	47	2·70

METEOROLOGICAL REPORTS.—OCTOBER 9.

South Australia: Fine generally, with broken clouds; showery at Cape Borda; sea moderate, barometer falling, wind light from the N.; rain, Cape Borda 0·09. Victoria: Fine, no rain, light northerly winds, smooth sea, and falling barometers on coast. New South Wales: Fine all down coast, cloudy at a few of the mountain stations, and S.W. in Riverina, light S.W. winds, rising barometers, and moderate sea generally on coast. See map for rain measure. Queensland: Cooktown, fine, light S.E. wind; rain at Rockhampton 0·35; smooth E.N.E. swell at Cape Moreton. 3 p.m. Observations.—New South Wales: Wentworth, N., cloudy, temperature 70°; Deniliquin, N.W., cloudy, temperature 62°; Albury, N., 14, cloudy, temperature 60°; Goulburn, calm, dull, temperature 60°; Forbes, calm, cloudy, temperature 61°; Eden, N.E., 14, fine, light sea, temperature 59°; Moruya, N.E., 42, fine, rough sea, temperature, 69°; Cape George, N.E., 28, fine, moderate sea, temperature, 58°; Sydney, N.E., 8, fine, smooth sea, temperature 60°; Newcastle, N.W., 14, cloudy, little sea, temperature, 67°; Port Macquarie, E., 14, fine, moderate sea, temperature 64°; Clarence River, S.E., 28, smooth sea, temperature 67°. State of Rivers: Murrumbidgee, at Wagga, 13 feet 10 inches above summer level; at Hay, 21 feet 9 inches above summer level; at Balranald, 15 feet above summer level. Murray, at Albury, 9 feet above summer level; at Euston, 13 feet 8 inches above summer level. Darling, at Wentworth, 16 feet 6 inches above summer level; at Pooncarie, 21 feet 5 inches above summer level; at Menindie, 26, feet 8 inches above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

9 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 9 October ....57 016.

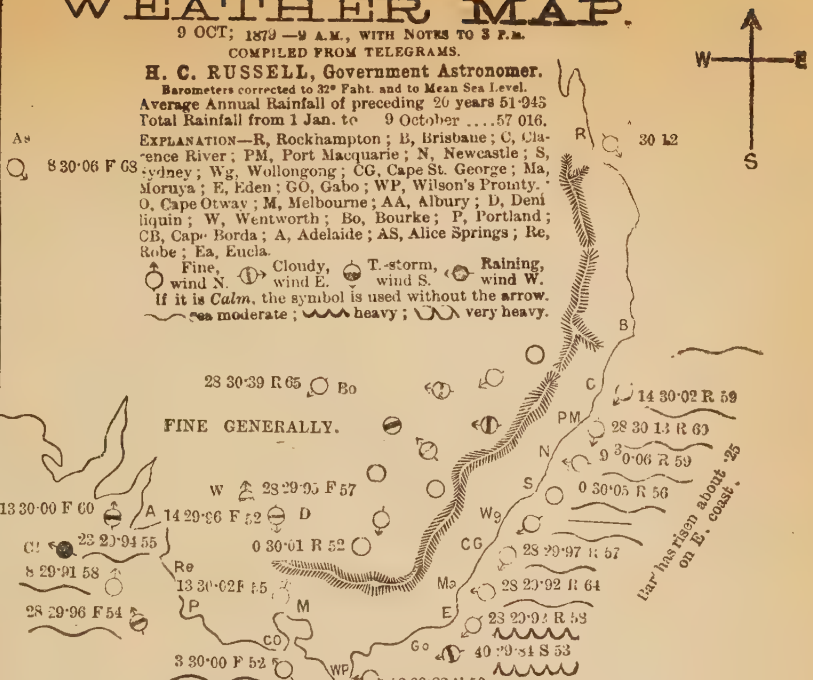
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	73	39	0
Grafton..	b	79	36	0
Inverell..	b	60	40	0·04
Walgett..	..	..	..	..
Bourke ..	b	72	48	0
Narra'ri..	b	67	46	0
Armidale.	u	75	46	0
Gunnedah	u	71	57	0
Coonab'an	c	67	44	0
P. Macqrie	b	70	49	0·40
Murr'undi	b	69	49	0
Cassilis ..	b	62	..	0
Mus'brook	b	74	45	0
Dubbo...	c	76	52	0
Mudgee ..	u	60	46	0
Maitland .	b	68	..	0·20
Newcastle	b	75	46	1·90
Orange ..	u	49	34	0·23
Bathurst..	u	51	43	0·09
MtVictoria	u	51	35	0·31
Forbes...	u	67	48	0·08
Bendemeer	.	..	.	..
SYDNEY	b	57	48	1·15
Wentw'th	c	67	43	0
Young...	c	58	46	0·16
Woll'gong	b	64	47	0·61
Moss Vale	..	.	..	..
Euston...	u	66	55	0
Goulburn.	b	52	36	0·63
Wagga ..	b	57	42	0
Cape Geo.	b	57	..	0·91
Queanb'an	b	57	35	0·21
Deniliquin	u	61	33	0
Albury...	b	63	37	0
Bodalla ..	b	75	41	0·29
Cooma...	n	47	30	0·17
Eden.....	b	58	48	0·37
Gabo Isld.	c	55	51	0·33



METEOROLOGICAL REPORTS.—OCTOBER 10.

South Australia: Barometer rising slowly; raining throughout, except about the tropics; strong wind between N.W. and S.W., except at Alice Springs and Port Darwin; also, squally and showery. Victoria: The barometers have fallen throughout the colony, with cloudy weather at all the stations; showery at Portland; wind generally between N. and N.E., and a moderate sea on coast. New South Wales: Fine generally; the barometers have fallen slightly; wind between N and W., and very light, except Moruya, Eden, and Gabo Island, where it is N.E.; smooth sea along E. cast; raining at Narrabri. Queensland: No report from Brisbane; at Cape Moreton there is a smooth sea; north of there, at Rockhampton and Cooktown, the wind is from S.E., blowing fresh at Cooktown. 3 p.m. Observations.—Victoria: Melbourne, N.W., squally and showery; Portland, W.N.W, strong, squally, showery, and smooth sea; Cape Otway, N.W., 40, strong, cloudy, sea smooth; Wilson's Promontory, N.N.E., fresh, overcast, slight sea. New South Wales: Wentworth, N.W., dull and threatening; Deniliquin, N., strong, fine; Albury, N.W., light, cloudy; Goulburn, N.N.W., fine; Forbes, N.W., cloudy; Eden, fine, light, E., sea; Cape George, N.E., fine, sea smooth; Sydney, E.N.E., fine, detached clouds, smooth sea; Newcastle, N.E., fresh, cloudy, sea smooth; Port Macquarie, N.E., dull, sea smooth; Clarence River, E.N.E., light, fine, sea smooth. State of Rivers: Murrumbidgee, at Hay, 21 feet 7 inches above summer level; at Balranald, 14 feet 10 inches above summer level. Murray, at Euston, 23 feet 8 inches above summer level. Darling, at Wentworth, 16 feet 7 inches above summer level; at Pooncarie, 21 feet 5 inches above summer level; at Menindie, 26 feet 9 inches above summer level; at Wilcannia, 33 feet above summer level.

WEATHER MAP.

10 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 10 October ....57 016.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	66	43	0
Grafton..	b	75	41	0
Inverell..	c	67	45	0
Walgett..	..	..	..	..
Bourke ..	b	..	..	0
Narrabri..	r	69	48	0·07
Armidale.	g	70	45	0
Gunnedah	b	..	..	0
Coonab'an	b	74	43	0
P. Macqrie	b	66	52	0
Murr'undi	c	62	47	0
Cassilis ..	b	69	..	0
Mus'brook	b	79	47	0
Dubbo...	b	69	49	0
Mudgee ..	b	68	47	0
Maitland .	c	69	..	0
Newcastle	b	71	53	0
Orange ..	b	59	36	0
Bathurst..	b	60	42	0
MtVictoria	c	57	38	0
Forbes...	b	69	49	0
Bendemeer	..	..	..	..
SYDNEY	c	63	53	0
Wentw'th	b	74	51	0
Young...	u	63	50	0
Woll'gong	b	67	51	0
Moss Vale	..	..	..	..
Euston...	b	69	44	0
Goulburn.	b	63	40	0
Wagga ..	b	71	42	0
Cape Geo.	b	63	..	0
Queanb'an	b	65	45	0
Deniliquin	b	65	40	0
Albury...	b	68	44	0
Bodalla ..	b	75	41	0·29
Cooma...	c	63	37	0
Eden.....	b	65	46	0
Gabo Isld.	b	61	49	0

METEOROLOGICAL REPORTS.—October 11.

South Australia: Fine, fresh S.W. wind; barometers rising, sea rough and moderate. Rain, Adelaide, 0·05; Eucla, 0·03; Cape Borda, 0·15: and Robe, 0·02. Victoria: Cloudy, raining on the coast; barometers rising, wind moderate, from S.W. and W.; sea smooth and moderate. Rain, at Melbourne, 0·27; Portland, 0·53, and Wilson's Promontory, 0·83. New South Wales: Fine generally; cloudy inland as far W. as Forbes, and S.W. as far as Young and Queanbeyan, and on the coast S. of Cape St. George; barometers falling; moderate northerly winds, and smooth sea generally on coast. Queensland: Light rain, with N.W. wind at Rockhampton; smooth E.N.E. sea at Cape Moreton. 3 p.m. Observations.—Victoria: Portland, S.W., 40, squally, smooth sea, temperature 51°; Cape Otway, S.W., 23, squally with rain, rough sea, temperature 50°; Wilson's Promontory, S.W, 23, squally, moderate sea, temperature 50°. New South Wales: Wentworth, W., squally, temperature 65°; Deniliquin, N.N.W., 20, threatening, temperature 63°; Albury, W.,, 10, cloudy, temperature 60; Goulburn, W., 10, showery, temperature 60°; Forbes, cloudy, temperature 64°; Eden, S.S.W., 20, like rain, easterly a little sea, temperature, 55; Moruya, S.E., 30, cloudy, moderate, sea, temperature, 56°; Cape George, no report; Sydney, S.W., 20, squally, barometer steady; Newcastle, N.W., 20, fine, no sea, temperature, 78°; Port Macquarie, N.E., 20, fine, no sea, temperature, 70; Clarence River, N.E., 20, sea smooth, temperature, 70. State of Rivers: Murrumbidgee, at Hay, 21 feet 6 inches above summer level; at Balranald, 14 feet 10 inches above summer level. Murray, at Euston, 23 feet 9 inches above summer level. Darling, at Wentworth, 16 feet 8 inches above summer level; at Pooncarie, 21 feet 5 inches above summer level; at Menindie, 26 feet 9 inches above summer level at Wilcannia, 30 feet 4 inches above summer level.

WEATHER MAP.

11 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·343

Total Rainfall from 1 Jan. to 11 October ....57·016.

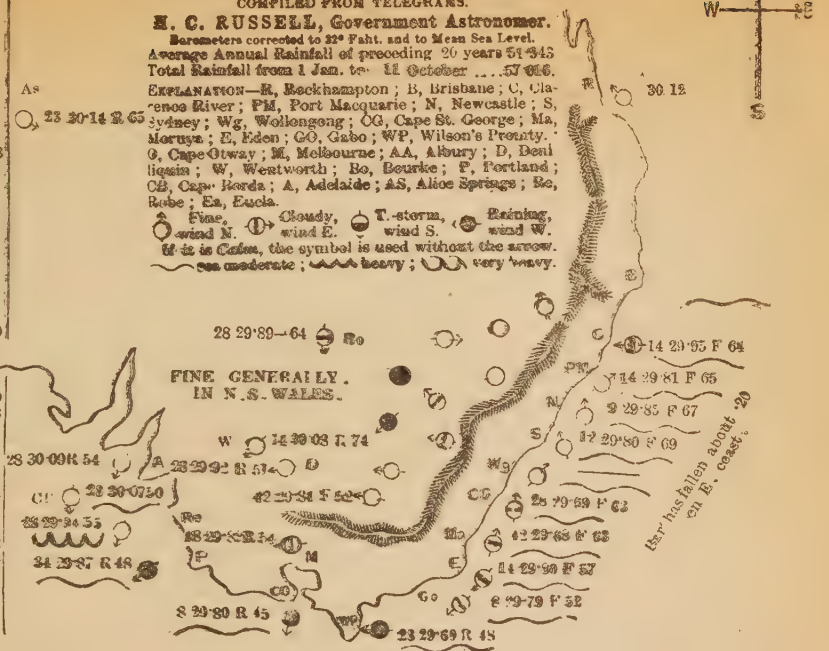
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. G, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Roebe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is Calm, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	67	44	0
Grafton..	b	71	42	0
Inverell..	b	68	45	0
Walgett..	..	..	..	..
Bourke..	c	80	56	0
Narrabri..	b	70	53	0
Armidale.	b	77	47	0
Gunnedah	b	76	47	0
Coonab'an	b	76	39	0
P. Macqrie	b	71	59	0·03
Murr'undi	b	64	43	0
Cassilis ..	b	70	..	0
Mus'brook	b	73	47	0
Dubbo...	u	70	60	0
Mudgee ..	b	71	49	0
Maitland .	b	75	..	0
Newcastle	b	71	54	0
Orange ..	c	64	36	0
Bathurst..	u	64	40	0
MtVictoria	b	64	45	0
Forbes...	p	67	45	0·10
Bendemeer	..	..	..	.
SYDNEY	b	69	59	0
Wentw'th	b	81	59	0·10
Young...	r	65	53	0·13
Woll'gong	b	70	55	0
Moss Vale	..	..	..	..
Euston...	b	66	31	0·17
Goulburn.	u	69	46	0
Wagga...	b	73	49	0·13
Cape Geo.	b	64	..	0
Queanb'an	c	67	47	0·05
Deniliquin	b	73	39	0·52
Albury...	b	73	45	0·25
Bodalla ..	u	76	45	0
Cooma...	c	66	41	0
Eden....	u	65	48	0
Gabo Isld.	u	66	52	0



METEOROLOGICAL REPORTS.—October 18.

South Australia: Fine weather generally, with scattered clouds; barometer high and steady, sea smooth, wind light, from the E. Rain at Alice Springs, 0·16. Victoria: Cloudy, sea moderate, fresh S.W. winds; barometers high and rising. Rain at Melbourne, 0·08; Cape Otway, 0·16; Wilson's Promontory, 0·24., and Portland, 0·13. New South Wales: Fine throughout, light S.W. winds, smooth sea and rising barometers on coast; Gabo Island and Cooma alone report cloudy weather, and the former rough sea. See weather map for rain measurements. Queensland: Cooktown, dull and overcast, with S.E. wind; smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, S., 13, cloudy, temperature 55°; Portland, S., 18, dull, temperature 57°. Cape Otway, S.W., 18, cloudy, moderate sea, temperature 56°; Wilson's Promontory, W., 28, cloudy, moderate sea, temperature 57°; New South Wales: Wentworth, S.E., fine, temperature 69°; Deniliquin, S.S.W., 14, fine, temperature 64°; Albury, W., 14, fine, temperature 60°; Goulburn, calm, fine, temperature 59°; Forbes, calm, fine, temperature 68°; Eden, W.S.W., 42, fine, moderate sea, temperature 61°; Moruya, S.E., 42, fine, sea smooth, temperature 59°; Cape George, S.E., 42, fine, slight sea, temperature 58°; Newcastle, S., fresh, fine, sea smooth, temperature 65°; Port Macquarie, S.E., 28, fine, sea smooth, temperature 65°; Clarence River, S.W., 42, fine, sea smooth temperature 67. State of Rivers: Murrumbidgee, at Hay, 21 feet above summer level; at Balranald, 14 feet 11 inches above summer level. Murray, at Euston, 13 feet 11 inches above summer level. Darling, at Wentworth, 16 feet 9 inches above summer level; at Pooncarie, 21 feet 6 inches above summer level; at Menindie, 28 feet 10 inches above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

13 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

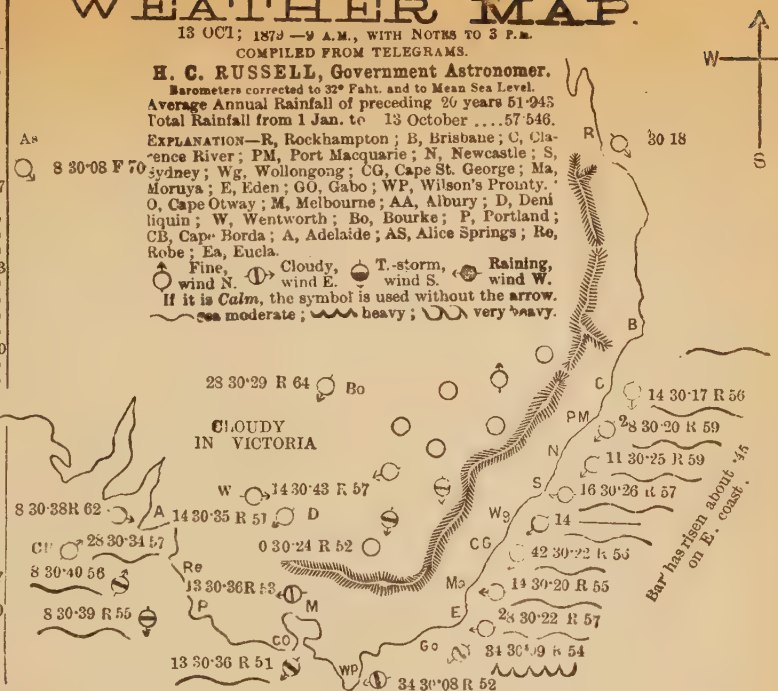
Total Rainfall from 1 Jan. to 13 October ....57·546.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	Wthr	Max	Min	Rain
Tenterfi'ld	b	72	35	0
Grafton..	b	78	34	0
Inverell..	b	73	37	0
Walgett..	..	..	..	..
Bourke ..	b	75	50	0
Narra'bri..	b	69	44	0
Armidale.	b	77	38	0
Gunnedah	b	76	35	0
Coonab'an	b	73	32	0·27
P. Macqrie	b	67	47	0
Murr'undi	b	69	40	0
Cassilis ..	b	62	..	0
Mus'brook	b	72	62	0
Dubbo...	b	69	44	0·53
Mudgee ..	b	66	39	0
Maitland .	b	79	..	0
Newcastle	b	65	46	0
Orange ..	b	52	22	0
Bathurst..	b	62	33	0·20
MtVictoria	b	68	32	0
Forbes...	b	70	47	0
Bendemeer	.	..	..	..
SYDNEY	b	64	48	0
Wentw'th	b	73	48	0
Young...	b	58	38	0
Woll'gong	b	72	47	0
Moss Vale	b	55	38	0
Euston...	b	66	41	0
Goulburn.	b	50	34	0
Wagga...	b	64	39	0
Cape Geo.	b	59	..	0
Queanb'an	c	64	35	0·07
Deniliquin	b	65	37	0
Albury...	b	65	35	0·20
Bodalla ..	b	67	35	0
Cooma...	c	57	33	0
Eden.....	b	59	48	0
Gabo Isld.	c	57	49	0

METEOROLOGICAL REPORTS.—October 14.

South Australia: Fine weather generally, sea moderate and smooth, barometers falling, wind moderate from N.E.; rain at Port Darwin, 0·01. Victoria: Cloudy, but no rain, sea moderate, barometers falling, wind light from N.E. and E. New South Wales: Cloudy generally on coast, with rising barometers, smooth sea, and moderate S.E. and S.W. winds; fine inland, with falling barometers, and light variable winds and calms; raining very lightly at Sydney, measured 0·006; Newcastle, dull, rain 0·030. Queensland: Cooktown, threatening rain, wind S.E., 18; smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers steady Melbourne, S., 13, fine, temperature 5°; Portland, E., 28, fine, sea smooth, temperature 57°; Cape Otway, E.S.E., 13, cloudy, sea moderate, temperature 55°; Wilson's Promontory, E.N.E., fine, sea smooth, temperature 61°. New South Wales: Wentworth, N.W., fine, temperature 74°; Deniliquin, calm, fine, temperature 67°; Albury, W., 14, fine, temperature 64°; Goulburn, N.N.E. fine, temperature 60°; Forbes, calm, fine, temperature 65°; Eden, N.E., fine, light sea, temperature 58°; Moruya, N.E., 42, fine, moderate sea, temperature 62°; Cape George, calm, fine, little sea, temperature 61°; Sydney, S.E., 14, cloudy, temperature 61°; Newcastle, S.S.W., fresh, dull, little sea, temperature 65°; Port Macquarie, S., 42, dull, smooth sea, temperature 66°; Clarence River, S.E., 42, cloudy, heavy sea, temperature 68. State of Rivers: Murrumbidgee, at Hay, 18 feet 6 inches above summer level; at Balranald, 14 feet 11 inches above summer level. Murray, at Euston, 14 feet above summer level. Darling, at Wentworth, 16 feet 10 inches above summer level; at Pooncarie, 21 feet 6 inches above summer level; at Menindie, 26 feet 11 inches above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

14 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

Total Rainfall from 1 Jan. to 14 October ....57·552.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	66	42	0
Grafton..	b	77	36	0
Inverell..	b	65	43	0
Walgett..	..	..	..	..
Bourke ..	b	76	48	0
Narrabri..	b	67	45	0
Armidale .	u	78	43	0
Gunnedah	b	76	51	0
Coonab'an	b	76	36	0
P. Macqrie	u	66	51	0
Murr'undi	b	64	44	0
Cassilis ..	u	71	..	0
Mus'brook	b	77	45	0
Dubbo...	b	66	49	0
Mudgee ..	c	73	47	0
Maitland .	c	68	..	0
Newcastle	u	64	51	0·03
Orange ..	u	59	32	0
Bathurst..	u	64	39	0
MtVictoria	u	68	39	0
Forbes...	b	72	49	0
Bendemeer	..	..	..	..
3 29·84 72 Ba				
SYDNEY	d	62	54	0·01
Wentw'th	b	74	45	0
Young...	b	64	44	0
Woll'gong	c	61	53	0
Moss Vale	u	62	46	0
Euston...	..	..	..	..
Goulburn.	u	67	43	0
Wagga ..	b	70	44	0
Cape Geo.	c	60	..	0
Queanb'an	b	68	60	0
Deniliquin	..	..	..	..
Albury ..	b	71	35	0
Bodalla ..	u	68	43	0
Cooma...	f	61	27	0
Eden.....	b	63	50	0
Gabo Isld.	c	61	51	0

METEOROLOGICAL REPORTS.—OCTOBER 15.

South Australia: Fine clear weather throughout, broken clouds at places, sea smooth, barometers falling, wind light from N., no rain. Victoria: Cloudy, barometers falling, moderate N.E. winds, sea smooth, no rain. New South Wales: Fine throughout; northerly winds on coast south of Wollongong, and southerly winds at Wollongong and northwards; sea moderate and smooth all down coast, with falling barometers. Queensland: Smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, N., 8, fine, temperature 56°; Portland, S.S.W., 18, cloudy, smooth sea, temperature 70°; Cape Otway, E., 13, fine, slight sea, temperature 57°; Wilson's Promontory, N.E., 12, cloudy, smooth sea, temperature 56°. New South Wales: Albury, E., 8, fine, temperature 66°; Goulburn, calm, fine, temperature 64°; Forbes, S.W., 14, fine, temperature 68°; Eden, N.E., 28, fine, light sea, temperature 63°; Cape George, N.E., 24, fine, smooth sea, temperature 60°; Sydney, E.N.E., 10, fine, smooth sea, temperature 63°; Newcastle, E.N.E., fine, smooth sea, temperature 71°; Port Macquarie, S.E., 8, fine, smooth sea, temperature 66°; Clarence River, S.E., 28, fine, moderate sea, temperature 67°; State of Rivers: Murrumbidgee, at Wagga, 12 feet 5 inches above summer level; Murray, at Albury, 10 feet 3 inches above summer level. Darling, at Wentworth, 16 feet 9 inches above summer level; at Pooncarie, 21 feet 6 inches above summer level; at Menindie, 27 feet above summer level; at Wilcannia, 33 feet 4 inches above summer level.

WEATHER MAP.

15 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 15 October ....57·552.

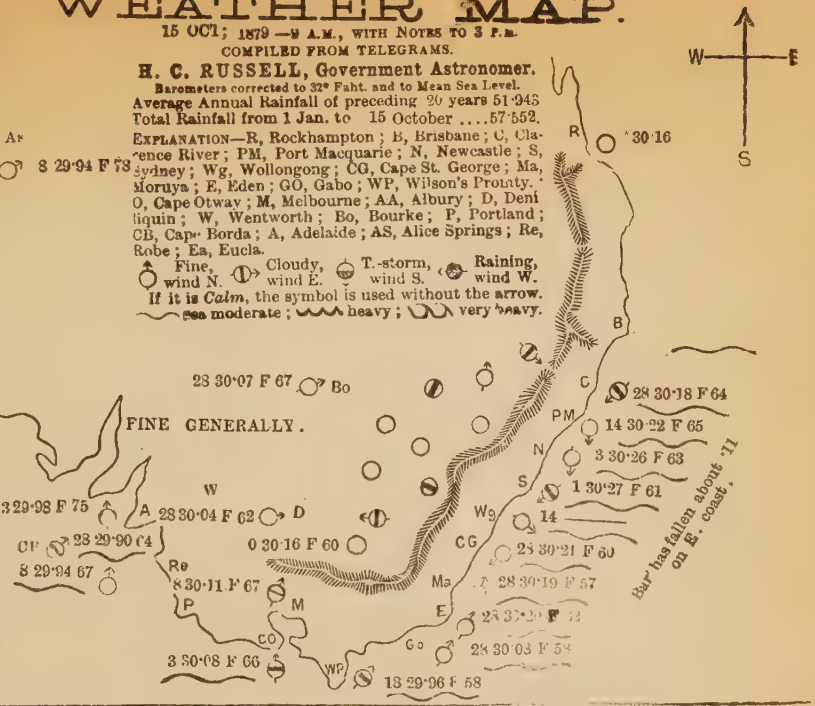
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Prontty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	61	21	0
Grafton..	b	79	43	0
Inverell..	b	77	45	0
Walgett..	..	..	..	..
Bourke ..	b	80	68	0
Narrabri..	u	74	44	0
Armidale.	b	68	34	0
Gunnedah	..	..	..	..
Coonab'an	b	94	45	0
P. Macqrie	b	67	54	0
Murr'undi	b	66	47	0
Cassilis ..	u	70	..	0
Mus'brook	b	75	45	0
Dubbo...	b	62	51	0
Mudgee ..	b	74	47	0
Maitland .	b	69	..	0
Newcastle	b	66	50	0
Orange ..	b	65	33	0
Bathurst..	b	67	38	0
MtVictoria	b	62	37	0
Forbes...	b	71	41	0
Bendemeer	..	..	..	..
SYDNEY	c	63	52	0
Wentw'th	..	..	..	..
Young...	o	68	47	0
Woll'gong	b	66	50	0
Moss Vale	b	63	42	0
Euston...	..	..	..	..
Goulburn.	b	67	39	0
Wagga ...	o	74	49	0
Cape Geo.	b	67	..	0
Queanb'an	u	72	45	0
Deniliquin	b	74	47	0
Albury...	b	76	43	0
Bodalla ..	b	64	38	0
Cooma...	f	72	33	0
Eden....	b	62	49	0
Gabo Isld.	o	69	52	0



METEOROLOGICAL REPORTS.—October 16.

South Australia reports fine weather generally, with light scattered clouds. Thunderstorms at Adelaide and Cape Borda, with light rain at latter station; sea smooth, wind light and variable; barometer steady. Rain at Adelaide, 0·01; Borda, 0·09. Victoria; Fine clear weather, with falling barometers, and light northerly winds throughout; sea smooth on coast; no rain; New South Wales: Fine, clear weather very generally; clouds at Narrabri, Coonabarabran, and Wagga; smooth sea; light N.E. winds and falling barometers on coast. Rain, at Bourke, 0·08. Coonabarabran, 0·07; and Albury, 0·14. Queensland: Light S. wind, and overcast at Cooktown; rain, 0·01; moderate S.E. sea at Cape Moreton. Cooktown, 29·87, temperature 84°, S., 34, squally. 3 p.m. Observations.—Victoria: Barometers falling slowly. Melbourne, N., 18, hot wind, temperature 79°; Portland, W.S.W., 8, light rain, smooth sea, temperature 66°; Cape Otway, N., 3, hot wind, smooth sea, temperature 78°; Wilson's Promontory, NN.E., 18, fine, moderate sea, temperature 75; New South Wales: Wentworth, N., 18, fine, hot, temperature 85.; Deniliquin, N.E., fine, temperature 77°; Albury, E., 14, fine, temperature 70°; Goulburn, calm, fine, temperature 68°; Forbes, calm, cloudy, temperature 67°; Eden, N.E., 28, fine, light sea, temperature 64°; Moruya, N.E., 20, fine, moderate sea, temperature 65°; Cape George, N., 28, cloudy, smooth sea, temperature 65°; Sydney, E.N.E., 8, fine, smooth sea, temperature 67°; Newcastle, E.N.E., 14, fine, smooth sea, temperature 72°; Port Macquarie, N.E., 28, fine, smooth sea, temperature 68°; Clarence River, S.E., 28, moderate sea, temperature 68° State of Rivers: Murrumbidgee, at Wagga, 11 feet above summer level; Murray, at Albury, 10 feet above summer level. Darling, at Wentworth, 16 feet 10 inches above summer level; at Pooncarie, 21 feet 6 inches above summer level; at Menindie, 27 feet above summer level; at Wilcannia, 33 feet 4 inches above summer level.

WEATHER MAP.

16 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·948

Total Rainfall from 1 Jan. to 16 October ....57·133.

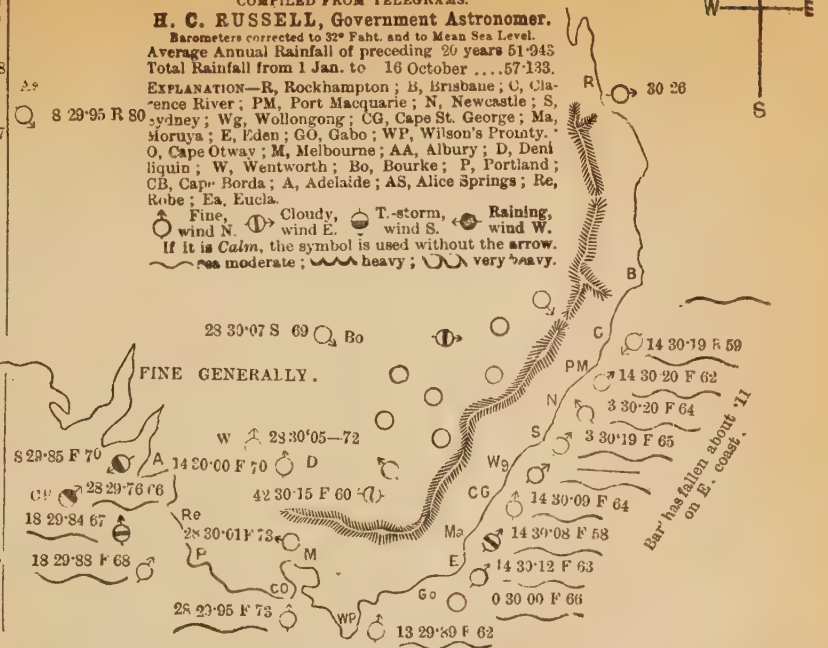
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	66	43	0
Grafton..	b	77	37	0
Inverell..	b	73	47	0
Walgett..	..	..	..	..
Bourke ..	b	79	59	0·08
Narra'bri..	c	76	56	0
Armidale.	b	70	33	0
Gunnedah	b	86	47	0
Coonab'an	u	97	47	0·07
P. Macqrie	b	69	48	0
Murr'undi	b	63	46	0
Cassilis ..	o	74	..	0
Mus'brook	b	80	47	0
Dubbo...	b	74	56	0
Mudgee ..	b	80	51	0
Maitland .	b	70	..	0
Newcastle	b	69	50	0
Orange ..	b	69	40	0
Bathurst..	b	72	44	0
MtVictoria	b	68	41	0
Forbes...	b	70	49	0
Bendemeer	..	..	..	..
29·89	64	Ea		
SYDNEY	o	66	52	0
Wentw'th	b	84	57	0
Young...	o	71	51	0
Woll'gong	b	68	54	0
Moss Vale	b	67	45	0
Euston...	..	..	..	..
Goulburn.	b	75	41	0
Wagga...	c	77	55	0
Cape Geo.	o	64	..	0
Queanb'an	b	75	46	0
Deniliquin	b	78	56	0
Albury...	b	80	..	0·14
Bodalla ..	b	69	44	0
Cooma...	b	75	35	0
Eden.....	b	64	49	0
Gabo Isld.	b	70	54	0



METEOROLOGICAL REPORTS.—October 17.

South Australia: Cloudy generally; showery at Robe, but fine d calm at Adelaide, sea moderate wind light from S. and W.; rometers rising; rain at Eucla and Robe, 0·06. Victoria: Cloudy roughout; showery at Wilson's Promontory, sea smooth, rometers steady, wind moderate from N. and N.W.; rain—elbourne 0·05, Cape Borda 0·3, Portland 0·14, and Wilson's omontory 0·49. New South Wales: Fine weather very gener-y; cloudy at Wentworth, Euston, Albury, Bodalla, oma, Eden, and Gabo Island: barometers falling, with ht N. winds generally on coast; sea smooth, light rains, asured in Riverina (see weather map). Queensland: Cook-n, sultry and clear, with light S. wind, smooth sea from S.E. Cape Moreton. 3 p m. Observations.—Victoria: Melbourne, 18, gloomy, temperature, 59·; Wilson's Promontory, W., 13, owery, sea very smooth, temperature, 59·; Cape Otway, W., 8, omy, sea smooth, temperature 59·; Portland, N.W., 23, gloomy, smooth, temperature 61·. New South Wales: Wentworth, .W., showery, thunderstorms, temperature 74·; Deniliquin, m, showery, heavy thunderstorms all morning, temperature ; Albury, calm, raining, heavy storm, temperature 69·: Goul-urn, W.W., strong, fine, temperature 72·; Forbes, N.N.W.; udy, temperature 72·; Eden, E., 14, dull, light, temperature 73·, ruya, N.E., 42, gloomy, moderate sea, temperature 71·; Cape orge, N., 28, fine, smooth sea, temperature 69·; Sydney, N.E., cloudy, smooth sea, temperature 75.; Newcastle, E.N.E, fresh, , smooth sea, temperature 77·; Port Macquarie, N.E., 42, , smooth sea, temperature 71·; Clarence River, W., 14, fine, oth sea, temperature 63·. State of Rivers: Murrumbidgee, at gga, 10 feet above summer level; Murrumbidgee, at Hay, 18 above summer level; Murrumbidgee, at Balranald, 15 feet ches above summer level; Murray, at Albury, 9 feet 6 inches ve summer level; Murray, at Euston, 14 feet 4 inches above mmer level.

WEATHER MAP.

17 OCT., 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 17 October ....57·133.

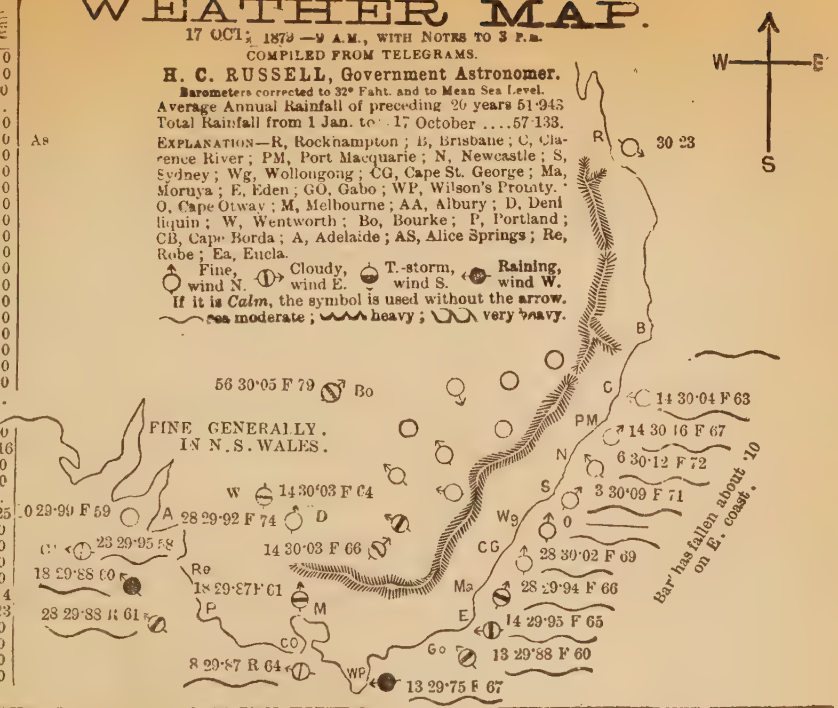
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. **Raining, wind W.**

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	b	72	44	0
Grafton..	b	80	40	0
Inverell..	b	73	48	0
Walgett..	..	..	..	..
Bourke..	b	83	59	0
Narr'bri..	b	79	56	0
Armidale.	b	79	50	0
Gunnedah	b	86	46	0
Coona'ban	b	95	46	0
P. Macqrie	b	71	59	0
Murr'undi	b	73	55	0
Cassilis..	b	75	..	0
Mus'brook	b	73	51	0
Dubbo...	b	72	58	0
Mudgee..	b	80	53	0
Maitland.	b	76	..	0
Newcastle	b	73	55	0
Orange..	b	74	43	0
Bathurst..	b	74	46	0
MtVictoria	b	73	49	0
Forbes...	b	73	54	0
Bendemeer	..	..	..	..
[illegible]	[illegible]	63	[illegible]	
SYDNEY	[illegible]	73	56	0
Wentw'th	u	91	55	0·16
Young...	o	70	58	0
Woll'gong	b	71	57	0
Moss Vale	..	..	..	..
Euston...	u	71	60	0·25
Goulburn.	b	70	47	0
Wagga..	o	81	62	0
Cape Geo.	b	69	..	0
Queanb'an	b	78	51	0
Deniliquin	b	81	61	0·04
Albury...	c	81	49	0·23
Bodalla..	c	80	48	0
Cooma...	c	72	43	0
Eden.....	b	66	55	0
Gabo Isld.	b	74	55	0



METEOROLOGICAL REPORTS.—October 18.

South Australia: Adelaide, barometer falling slowly, N.W., 3, gloomy, raining, 14. Victoria: Cloudy throughout; light rain at Portland, sea moderate; barometers rising, wind light and variable. Rain, at Melbourne, 0·21; Portland, 0.02; and Wilson's Promontory, 0·18. New South Wales: Cloudy generally, fine up N., scattered clouds across centre of colony, and raining generally down S. and S.W. Heavy rains last night at Albury and Queanbeyan. (See map.) Light variable winds, smooth sea, and falling barometers on coast. Queensland: Smooth sea at Brisbane Heads; S.E. wind at Rockhampton. 3 p.m. Observations.—Victoria: Melbourne, barometers steady; Portland, 38, misty, rain, smooth sea, temperature 59°; Cape Otway, E., 8, gloomy, moderate sea, temperature 58°; Wilson's Promontory, N.E., 18, gloomy, smooth sea, temperature 59°. New South Wales: Wentworth, S.S.W., showers, temperature 66°; Deniliquin, calm, raining, temperature 56°; Albury, calm, raining, temperature 65°; Goulburn, N.W., cloudy, temperature 70°; Forbes, calm, cloudy, temperature 67°; Moruya, S.E., 14, raining, sea moderate, temperature 60°; Sydney, E., 14, cloudy, sea smooth, temperature 75°; Port Macquarie, N.E., 20, fine, sea smooth, temperature 72°; Eden, E., 14, raining, little sea, temperature 59°; Cape George, fine interrupted; Newcastle, N.W., 20, fine, sea smooth, temperature 82°; Clarence River, N.E., 20, fine, sea smooth, temperature 71°. State of Rivers: Murrumbidgee, at Wagga, 10 feet above summer level; Murrumbidgee, at Hay, 19 feet above summer level; Murrumbidgee, at Balranald, 16 feet 3 inches above summer level; Murray, at Albury, 9 feet 9 inches above summer level; Murray, at Euston, 14 feet 5 inches above summer level; Darling, at Wentworth, 16 feet 5 inches above summer level; Darling, at Pooncarie, 21 feet 6 inches above summer level; Darling, at Menindi, 27 feet 2 inches above summer level; Darling, at Wilcannia, 35 feet 7 inches above summer level.

WEATHER MAP.

18 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

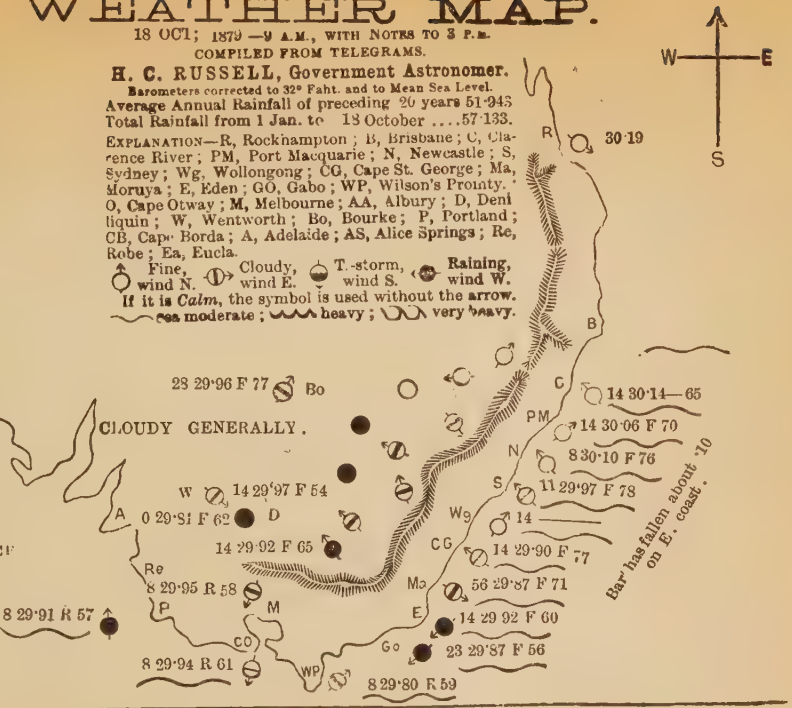
Total Rainfall from 1 Jan. to 18 October ....57·133.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow. sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	75	44	0
Grafton..	b	82	42	0
Inverell..	b	77	48	0
Walgett..	..	..	..	..
Bourke ..	c	93	71	0
Narrabri..	b	81	64	0
Armidale.	b	79	54	0
Gunnedah	u	91	53	0
Coonab'an	c	85	55	0
P. Macqrie	b	73	59	0
Murr'undi	b	76	63	0
Cassilis ..	u	85	..	0
Mus'brook	b	81	50	0
Dubbo...	c	81	62	0
Mudgee ..	c	82	66	0
Maitland .	b	84	..	0
Newcastle	b	85	63	0
Orange ..	u	77	52	0
Bathurst..	u	77	60	0
MtVictoria	b	77	57	0
Forbes...	p	73	51	0·49
Bendemeer	..	..	..	..
Eucla				
SYDNEY	u	84	67	0
Wentw'th	p	74	..	0·81
Young...	r	78	63	0·45
Woll'gong	b	74	65	0
Moss Vale	c	79	62	0
Euston...	r	61	60	0
Goulburn.	u	80	46	0·05
Wagga...	r	85	57	0·35
Cape Geo.	b	76	..	0
Queanb'an	c	80	61	1·05
Deniliquin	r	81	54	0·54
Albury...	r	75	60	2·25
Bodalla ...	r	90	60	0·23
Cooma...	c	77	56	0·38
Eden.....	r	72	60	0·06
Gabo Isld.	d	75	56	0·11



METEOROLOGICAL REPORTS.—OCTOBER 20.

South Australia: Fine weather throughout, with light scattered clouds, smooth sea, rising barometers, and light variable winds; rain at Adelaide, 0.01. Victoria: Cloudy at Cape Otway and Wilson's, fine at Melbourne and Portland, sea smooth, barometers steady, wind fresh from N. and W.; rain at Melbourne, 1·10; Cape Otway, 0·13; Portland, 0·18; and Wilson's, 1·27. New South Wales: Fine generally, cloudy on coast south of Sydney, barometers steady, sea smooth, and wind light from the N. on coast, barometers rising inland; see weather map for rain measurements. Queensland: Brisbane fine, sea moderate, barometers rising. 3 p.m. Observations.—Victoria: Barometers falling slowly; Melbourne, N., 18, fine, temperature 59°; Portland, W., 40, fine, temperature 61°, sea smooth; Cape Otway, W., 18, cloudy, temperature 5 °, sea smooth; Wilson's Promontory, W.N.W., 13, thunder showers, temperature 62°, smooth sea. New South Wales: Deniliquin, N., dull, temperature 65°; Albury, S.W., cloudy, temperature 67°; Goulburn, W., strong, fine, temperature 67°; Forbes, calm, fine, temperature 73°; Eden, E., 14, fine, light, temperature 64°; Cape George, N.E., fine, sea smooth, temperature 65°; Sydney, W.S.W., fine, smooth sea, temperature 77°; Newcastle, N.W., fine, smooth sea, temperature 78°; Port Macquarie, N.E., 14, fine, smooth sea, temperature 72°; Clarence River, S.E., 14, fine, smooth sea, temperature 72°. State of Rivers: Murrumbidgee, at Wagga, 11 feet above summer level; Murrumbidgee, Hay, 19 feet 8 inches above summer level; Murrumbidgee, at Balranald, 16 feet 4 inches above summer level; Murray, at Euston, 14 feet 7 inches above summer level.

WEATHER MAP.

20 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 20 October ....57·134.

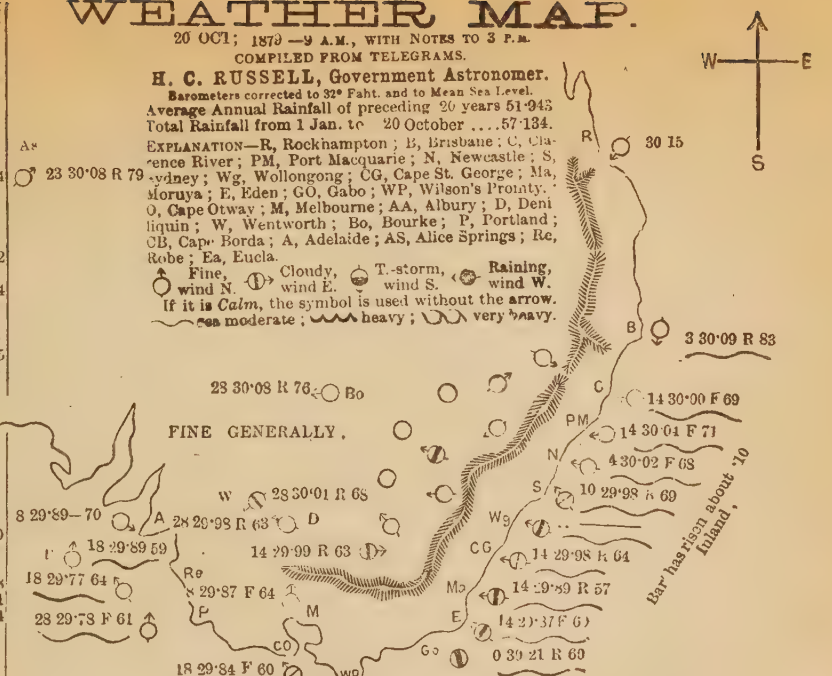
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	71	52	0
Grafton..	b	80	47	0
Inverell..	b	77	46	0
Walgett..	..	..	..	..
Bourke ..	b	82	00	0
Narrabri..	b	76	53	0
Armidale.	b	70	36	0
Gunnedah	u	86	58	0·14
Coonab'an	b	93	44	0
P. Macqrie	b	76	47	0
Murr'undi	b	76	61	0
Cassilis ..	b	86	..	0
Mus'brook	b	8[illegible]	51	0·02
Dubbo...	b	79	42	0
Mudgee ..	b	80	50	0·24
Maitland .	b	87	..	0
Newcastle	b	83	55	0
Orange ..	u	63	38	0
Bathurst..	u	72	43	0·25
MtVictoria	b	72	45	0
Forbes...	o	75	55	0
Bendemeer	..	..	..	..
SYDNEY	c	79	61	0
Wentw'th	u	72	47	0
Young...	b	68	47	0
Woll'gong	c	76	60	0
Moss Vale	b	65	48	0
Euston...	o	71	45	0
Goulburn.	b	66	42	0·90
Wagga ...	b	70	50	0
Cape Geo.	b	75	..	0
Queanb'an	b	68	58	1·68
Deniliquin	b	69	46	0·81
Albury. ...	c	7[illegible]	43	1·04
Bodalla ...	b	78	48	0
Cooma ...	b	64	43	0
Eden.....	b	68	53	0
Gabo Isld.	u	63	52	0



METEOROLOGICAL REPORTS.—October 21.

South Australia: Fine clear weather throughout, barometers falling, sea rough, and slight, wind fresh from the north; strong hot wind at Eucla from N.N.W., 34 miles per hour, no rain. Victoria: Cloudy generally, sea moderate and rather rough, strong westerly winds on south-west coast, squally at Wilson's Promontory; rain, 0·04. New South Wales: Fine clear weather throughout, sea smooth, barometers falling, and fresh westerly and southerly winds on coast; light rains down south yesterday, for measurements see list in weather map. Queensland: Brisbane, fine, barometers rising, light S.W. wind, sea smooth. 3 p.m. Observations.—Victoria: Melbourne, N.E., 13, gloomy, temperature 71°; Portland, N., 28, fine, smooth sea, temperature 69°; Cape Otway, E., 13, fine, rough sea, temperature 65°; Wilson's Promontory, W., 28, squally, misty, moderate sea, temperature 59°. New South Wales: Wentworth, N.W., fine, temperature 78°; Deniliquin, W., 14, fine, temperature 70°; Albury, S.W., 14, fine, temperature 68°; Goulburn, W., fine, temperature 68°; Forbes, S.W., fine, temperature 74°; Eden, S.S.E., 28, fine, light sea, temperature 67°; Moruya, S.E., 28, fine, moderate sea, temperature 66°; Cape George, S.E., 14, cloudy, smooth sea, temperature 65°; Sydney, S.E., 14, fine, smooth sea, temperature 71°; Newcastle, W.N.W., 14, fine, smooth sea, temperature 84°; Port Macquarie, N.E., 28, fine, smooth sea, temperature 75°; Clarence River, E.N.E., 14, cloudy, smooth sea, temperature 75°. State of Rivers: Murrumbidgee, at Hay, 14 feet above summer level; Murrumbidgee, at Balranald, 16 feet 5 inches above summer level; Murray, at Albury, 15 feet above summer level; Murray, at Euston, 16 feet 10 inches above summer level. Darling, at Wentworth, 14 feet 5 inches above summer level; Darling, at Pooncarie, 21 feet 7 inches above summer level; Darling, at Menindie, 27 feet 3 inches above summer level; Darling, at Wincannia, 33 feet 8 inches above summer level.

WEATHER MAP.

21 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 21 October ....57·134.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'thy	Max	Min	Rain
Tenterfi'ld	b	72	57	0
Grafton..	u	88	63	0
Inverell..	b	75	50	0
Walgett..	..	.	..	..
Bourke ..	b	91	65	0
Narrabri..	b	80	59	0
Armidale.	b	80	52	0
Gunnedah	b	89	50	0
Coonab'an	b	104	53	0
P. Macqrie	b	76	57	0
Murr'undi	b	73	55	0
Cassilis ..	b	81	..	0·16
Mus'brook.	b	88	58	0
Dubbo...	b	78	60	0·27
Mudgee ..	b	79	54	0
Maitland .	b	81	..	0
Newcastle	b	82	63	0·03
Orange ..	b	69	43	0
Bathurst..	b	73	53	0
MtVictoria	b	68	52	0
Forbes...	b	78	53	0·12
Bendemeer	..	.	..	..
SYDNEY	b	79	65	0
Wentw'th	b	83	45	0
Young...	b	74	53	0
Woll'gong	b	75	59	0
Moss Vale	b	70	54	0
Euston...	o	61	40	0·15
Goulburn.	b	73	50	0·11
Wagga ..	b	78	43	0·11
Cape Geo.	b	74	..	0
Queanb'an	b	75	52	0·03
Deniliquin	b	76	43	0·03
Albury...	b	79	44	0·09
Bodalla ..	b	78	49	0
Cooma...	b	71	47	0
Eden....	u	66	55	0·04
Gabo Isld.	c	69	55	

METEOROLOGICAL REPORTS.—October 22.

South Australia: Fine generally, smooth sea, barometers rising, wind light and variable, no rain. Victoria: Cloudy, smooth sea, barometers steady, strong northerly winds generally; squally at Melbourne and Wilson's Promontory, no rain. New South Wales: Fine generally; cloudy down S W.; thunderstorm from 5 a.m. till after 9 a.m. at Wentworth; fine clear weather, with light northerly wind, steady barometers, and smooth sea on coast. Queensland: Brisbane, fine, with light S.E. wind, rising barometer, and smooth sea. 3 p.m. Observations.—Victoria: Barometers very low; Melbourne, N., 28, fine, temperature 75°; Portland, W., 48, squally, sea smooth; Cape Otway, N.W., 34, threatening, smooth sea; Wilson's Promontory, line down. New South Wales: Wentworth, N., 20, stormy, hot, temperature 87°; Deniliquin, N.N.E., 14, threatening, temperature 70°; Albury, N.E., raining, temperature 66°; Goulburn, W., fine, temperature 73°; Forbes, calm, cloudy, temperature 78°; Eden, N.E., 20°, cloudy, like rain, sea smooth, temperature 71°; Moruya, N.E., 20, gloomy, sea moderate, temperature 73°; Cape George, N., 20, fine, hot, sea smooth, temperature 69°; Sydney, N.N.E., 20, light clouds, temperature 71°; Newcastle, N.E., 14, fine, sea smooth, temperature, 77°; Port Macquarie, N.E., 14, fine, smooth sea, temperature 75°; Clarence River, N.E., 14, fine, smooth sea, temperature 76°. State of Rivers: Murrumbidgee, at Hay, 18 feet above summer level; Murrumbidgee, at Balranald, 16 feet 5 inches above summer level; Murray, at Albury, 16 feet above summer level; Murray, at Euston, 14 feet 6 inches above summer level. Darling, at Wentworth, 17 feet 6 inches above summer level; Darling, at Pooncarie, 21 feet 9 inches above summer level; Darling, at Menindie, 27 feet 4 inches above summer level; Darling, at Wincannia, 33 feet 7 inches above summer level.

WEATHER MAP.

22 OCT; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

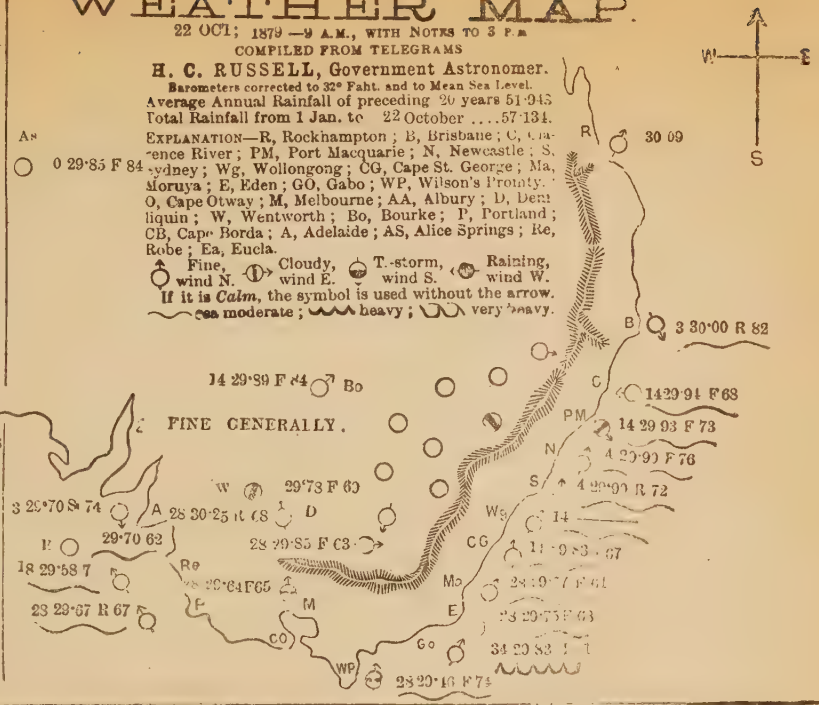
Total Rainfall from 1 Jan. to 22 October ....57·134.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.



Stations	Weather	Max	Min	Rain
Tenterfield	b	76	47	0
Grafton..	b	91	44	0
Inverell..	b	78	49	0
Walgett..	..	..	..	..
Bourke ..	b	96	67	0
Narrabri..	b	89	60	0
Armidale.	b	82	54	0
Gunnedah	b	95	58	0
Coonab'an	o	104	49	0
P. Macqrie	b	83	58	0
Murr'undi	b	72	51	0
Cassilis ..	b	82	..	0
Mus'brook	b	91	58	0
Dubbo...	b	80	45	0
Mudgee ..	b	82	54	0
Maitland .	b	86	..	0
Newcastle	b	89	61	0
Orange ..	b	70	38	0
Bathurst..	b	75	42	0
MtVictoria	b	72	51	0
Forbes...	o	77	52	0
Bendemeer	..	..	..	..
S 29 74 67 Ea				
Sydney	b	82	59	0
Wen w't t	t	83	55	0·06
Young ...	b	72	48	0
Woll'gong	b	78	59	0
Moss Vale	b	..	..	0
Euston...	u	66	53	0
Goulburn.	b	73	39	0
Wagga ..	b	77	49	0
Cape Geo.	b	74	..	0
Queanb'an	b	75	43	0
Deniliquin	b	74	48	0
Albury...	b	76	43	0
Bodalia ..	b	74	43	0
Cooma...	b	75	35	0
Eden....	b	71	52	0
Gabo Isld.	L	64	53	0

METEOROLOGICAL REPORTS.—October 23.

South Australia: Cloudy generally, showery, with rough sea at Cape Borda, rain 0·01, barometers rising in western portion of colony, falling eastward at Robe, fresh westerly winds on coast. Victoria: Cloudy, fresh westerly winds and smooth sea generally. sea rough at Cape Otway, barometers falling, squally at Wilson's Promontory and Portland, no rain. New South Wales: Fine weather generally, cloudy up near Queensland border, moderate S.W. winds and calms generally, sea smooth, and barometers falling on the coast; hot N.W. wind at Sydney all day. Queensland: Brisbane, fine, with light N. wind, rising barometer and smooth sea; Cooktown, fresh S.S.E. wind and showery. 3 p.m. Observations.—Victoria: Barometers low and steady; Melbourne, N.W., 18, fine, temperature 77°; Portland, W., 40, squally with rain, sea smooth, temperature 55°; Cape Otway, N.W., 44, showery, high sea, temperature 53°; Wilson's Promontory, W., 28, squally, showery, sea smooth, temperature 71; New South Wales: Wentworth, S., fine, temperature 84°; Deniliquin, calm, fine, temperature 80°; Albury, W., 14, fine, temperature 74°; Goulburn, W.N.W., fine, temperature 79°; Forbes, N.W., 28, fine, temperature 81°; Eden, N., 28, fine, smooth sea, temperature, 80°; Moruya, N.E., 42, fine, moderate sea, temperature 74°; Cape George, N., 14, cloudy, smooth sea, temperature 74°; Sydney, N.W., 20, fine, hot, smooth sea, temperature 93°; Newcastle, N.W., fresh, fine, smooth sea, temperature 91°; Port Macquarie, no report; Clarence River, N., 10, fine, smooth sea, temperature 82°. At Sydney the temperature to-day rose to 95°, and from 1 p.m. until after 3 p.m. it was 93°. All the afternoon a storm threatened to N.W., and at 8 p.m. passed over the city as a heavy storm of wind with lightning. State of Rivers: Murrumbidgee, at Hay, 17 feet 9 inches above summer level; Murrumbidgee, at Balranald, 16 feet 5 inches above summer level; Murray, at Euston, 14 feet above summer level. Darling, at Wentworth, 17 feet 7 inches above summer level; Darling, at Pooncarie, 21 feet 8 inches above summer level; Darling, at Menindie, 27 feet 3 inches above summer level; Darling, at Wincannia, 33 feet 6 inches above summer level.

WEATHER MAP.

23 OCT; 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 23 October ....57·134.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Centerfi'ld	u	82	48	0
Grafton..	b	94	47	0
Inverell..	u	85	55	0
Walgett..	..	..	..	..
Bourke ..	b	97	74	0
Narrabri..	u	89	60	0
Armidale.	b	80	55	0
Gunnedah	u	97	57	0
Coonab'an	b	98	55	0
P. Macqrie	b	76	62	0
Murr'undi	c	82	63	0
Cassilis ..	b	89	..	0
Mus'brook	b	98	62	0
Dubbo...	b	83	62	0
Mudgee ..	b	84	57	0
Maitland .	b	89	..	0
Newcastle	b	82	65	0
Orange ..	b	72	49	0
Bathurst..	b	82	52	0
MtVictoria	b	81	60	0
Forbes...	b	79	58	0
Bendemeer	..	..	..	..
SYDNEY	b	84	67	0
Wentw'th	b	91	55	0
Young...	b	80	58	0
Woll'gong	b	77	65	0
Moss Vale	b	81	66	0
Euston...	b	76	55	0·10
Goulburn.	b	84	57	0
Wagga ..	b	81	52	0
Cape Geo.	b	77	..	0
Queanb'an	b	81	56	0
Deniliquin	b	71	59	0·02
Albury...	b	74	63	0·41
Bodal'a ..	b	87	58	0
Cooma...	b	81	54	1·66
Eden....	b	81	60	0·01
Gabo Isld	b	81	64	0

METEOROLOGICAL REPORTS.—October 22.

South Australia: Cloudy generally, sea rough, barometers rising, wind fresh from S.W.; showery at Robe, rain 0·005, and squally at Cape Borda, rain 0·20. Victoria: Cloudy and showery, sea rough, and light fresh S.W. winds, barometers rising, rain at Melbourne, 0·17; Cape Otway, 0·32; Portland, 0·23; Wilson's Promontory, 0·23. New South Wales: Cloudy generally but without rain, sea smooth, barometers rising, and fresh S. wind on coast; thunderstorm at Bodalla, and showery at Inverell. See weather map for yesterday's rain. Queensland: Cooktown, fine and calm; sea moderate at Cape Moreton; Brisbane, fine, clear, with light north wind. 3 p.m. Observations.—Victoria: Barometers rising slowly; Portland, S.S.W., 23, fine, smooth sea, temperature 57°; Cape Otway, S.W., 18, cloudy, rough sea, temperature 56°; Wilson's Promontory, S.W., 23, fine, smooth sea, temperature 57°; New South Wales: Wentworth, S., fine, 74°; Deniliquin, S.W., fine, 70°; Albury, W., 14, fine, 68°; Goulburn, N.W., dull, 73°; Forbes, calm, cloudy, 78°; Eden, S.W., 20, showery, smooth sea, 59°; Moruya, S., 20, rain and thick weather, moderate, 55°; Cape George, no report; Sydney, S.S.E., 8, cloudy, smooth sea, 70°; Port Macquarie, N.N.E., 28, fine, smooth sea, 91°; Newcastle, N.W., cloudy, smooth sea, 85°; Clarence River, N., 14, fine, smooth sea, 74°. State of Rivers: Murrumbidgee, at Wagga, 23 feet 9 inches above summer level.

WEATHER MAP.

24 OCT^R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 24 October ....57·149.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	75	60	0
Grafton..	u	90	73	0
Inverell..	p	80	65	0·30
Walgett..	..	..	..	..
Bourke ..	b	98	67	0·99
Narrabri..	u	86	55	0·02
Armidale.	c	82	54	0
Gunnedah	u	92	60	0·10
Coonab'an	c	92	58	0·25
P. Macqrie	u	82	66	0
Murr'undi	u	83	63	0
Cassilis ..	b	95	..	0
Mus'brook	u	98	69	0
Dubbo...	c	88	62	0·45
Mudgee ..	u	90	63	0·24
Maitland .	b	94	..	0
Newcastle	b	96	71	0
Orange ..	u	83	52	0·50
Bathurst..	u	86	59	0·51
MtVictoria	u	88	55	0·06
Forbes...	c	82	61	0·55
Bendemeer	b	78	54	0
8 30 24 65 Ea				
SYDNEY	u	95	63	0·02
Wentw'th	b	94	49	0
Young...	u	84	66	0
Woll'gong	b	85	61	0
Moss Vale	c	88	60	0
Euston...	b	61	50	0
Goulburn.	b	89	59	0·06
Wagga...	u	89	63	0·09
Cape Geo.	..	..	..	..
Queanb'an	c	87	60	0
Deniliquin	b	86	49	0
Albury...	u	87	58	0·01
Bodalla ..	t	93	53	0·17
Cooma...	c	82	52	0·42
Eden....	u	85	55	0·32
Gabo Isld.	u	94	54	0

CLOUDY GENERALLY.

METEOROLOGICAL REPORTS.—October 25.

South Australia: Fine generally, with light variable winds, smooth sea, and steady barometers; no rain. Victoria: Cloudy generally, barometers rising, light southerly winds, and smooth sea; rain at Portland, 0·61. New South Wales: Fine inland, cloudy on coast, showery south of Newcastle, fresh S.S.W. wind, rising barometers, and smooth sea generally. See weather map for rain records. Queensland: Moderate. N.E. swell at Cape Moreton; fine and calm at Cooktown. 3 p.m. Observations.—Victoria, barometers steady; Portland, E.S.E., 23, fine, smooth sea, temperature 59°; Cape Otway, S.E., 8, fine, moderate sea, temperature 63°; Wilson's Promontory, E.N.E., 18, fine, smooth sea, temperature 64°. New South Wales: Wentworth, S., fine, temperature 72°; Deniliquin, S., 14, fine, temperature 69°; Albury, S.E., 20, fine, temperature 65°; Goulburn, calm, cloudy, temperature 62°; Forbes, W., 20, cloudy, temperature 64°; Eden, S.W., 20 fine, heavy sea, temperature 62°; Moruya, S.W., 40, showery, sea rough, temperature 60; Cape George, S., 30, showery, heavy sea, temperature 57; Sydney, W., 14, cloudy, temperature 54°; Newcastle, S.W., 30, cloudy, sea increasing, temperature 65°; Port Macquarie, S., 20, fine, sea smooth, temperature 68.; Clarence River, S.E., 14, stormy, sea smooth. State of Rivers: Murrumbidgee, at Wagga, 22 feet 3 inches above summer level; at Hay, 14 feet 3 inches above summer level; at Balranald, 16 feet 6 inches above summer level. Murray, at Albury, 13 feet 6 inches above summer level; at Euston, 19 feet 2 inches above summer level. Darling, at Wentworth, 17 feet 11 inches above summer level; at Pooncarie, 21 feet 8 inches above summer level; at Menindie, 27 feet 7 inches above summer level; at Wilcannia, 33 feet 5 inches above summer level.

WEATHER MAP.

25 OCT'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 25 October ....57·425.

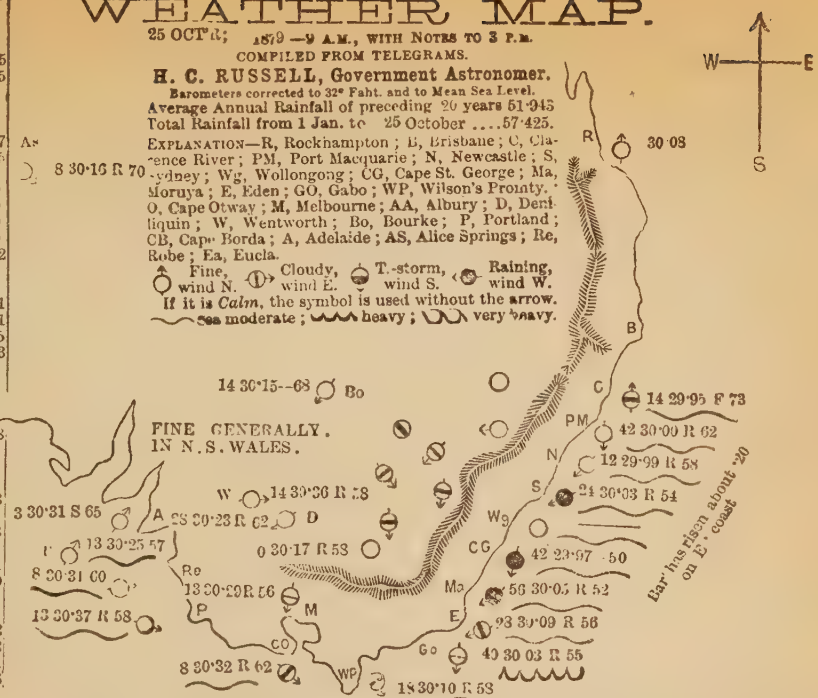
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	75	64	0·45
Grafton..	c	86	51	0·15
Inverell..	..	..	..	..
Walgett..	..	..	..	.
Bourke ..	b	81	52	0
Narrabri..	b	81	54	0·17
Armidale .	u	79	50	0·15
Gunnedah	..	.	..	..
Coonab'an	b	85	45	0
P. Macqrie	u	76	61	0
Murr'undi	b	77	51	0
Cassilis ..	b	83	..	0
Mus'brook	b	95	59	0·12
Dubbo...	b	79	52	0
Mudgee ..	b	77	49	0
Maitland .	c	92	..	1·01
Newcastle	b	83	55	0·41
Orange ..	u	72	34	0·15
Bathurst..	u	70	43	0·43
MtVictoria	u	73	40	0
Forbes...	b	82	61	0
Bendemeer	b	78	51	0
18 30·32 75 Ea				
SYDNEY	d	73	54	0·28
Wentw'th	b	71	43	0
Young...	c	70	49	0
Woll'gong	..	..	..	..
Moss Vale	r	76	45	0·63
Euston...	b	66	45	0
Goulburn.	p	72	41	0·93
Wagga ..	b	89	40	0
Cape Geo.	p	64	..	0·31
Queanb'an	c	72	45	0·50
Deniliquin	b	67	44	0
Albury...	b	73	39	0·01
Bodalla ..	p	61	47	0·72
Cooma...	c	62	38	0·52
Eden.....	u	60	51	0·41
Gabo Isld.	u	57	51	0·36



METEOROLOGICAL REPORTS.—October 27.

South Australia: Cloudy generally; showery at Robe; fine N. of Adelaide, barometers steady, sea rough and moderate, wind light from W. and N.W.; rain, Adelaide, 0·02; Eucla, 0·02; Cape Borda, 0·25; and Robe, 0·05. Victoria: Cloudy; showery at Portland, barometers falling, with strong N. and N.E. winds and moderate sea on coast; rain at Portland, 0·03. New South Wales: Fine generally; clouds on coast S. of Sydney, and inland in the Young, Euston, Wagga, and Albury districts; on the coast the barometers are falling, and the wind generally is light from westerly quarters; sea rough at Eden and Gabo Island, smooth elsewhere. Queensland: Brisbane, fine, with light S.E. wind, rising barometers, and smooth sea; Cooktown, overcast with light E. wind, rain 0·06. 3 p.m. Observations.—Victoria: Melbourne, N., 18, cloudy, temperature 76°; Cape Otway, N.W., 18, cloudy, moderate sea, temperature 67°; Wilson's Promontory, N.N.E., 23, gloomy, moderate sea, temperature 56°. New South Wales: Wentworth, N.W., fine, temperature 82°; Deniliquin, calm, dull, temperature 66°; Albury, S.E., 13, cloudy, temperature 65°; Goulburn, calm, fine temperature 62°; Forbes, calm, dull, temperature 70°; Eden, N.E., 14, fine, light, temperature 60°; Cape George, N., 14, cloudy, sea light, 60°; Sydney, N.E., 18, dull, sea smooth, temperature 62°; Newcastle, N.E., 14, hazy, little sea, temperature 71°; Port Macquarie, E., 14, fine, sea smooth, temperature 69°; Clarence River, E., 28, fine, sea smooth, temperature 72°. State of Rivers: Murrumbidgee, at Wagga, 16 feet 6 inches above summer level; at Hay, 16 feet above summer level; at Balranald, 16 feet 3 inches above summer level; Murray, at Albury, 12 feet 8 inches above summer level; at Euston, 19 feet 11 inches [illegible] Darling, at Wentworth, 18 feet 4 inches above [illegible] Bourke, 21 feet 8 inches above summer level; at [illegible], 17 feet 8 inches above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

27 OCT'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 27 October ....57·425.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promontory. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	69	47	0
Grafton..	b	83	47	0
Inverell..	b	70	44	0
Walgett..	..	.	..	.
Bourke ..	b	81	54	0
Narr'ri..	b	71	50	0
Armidale.	b	82	44	0
Gunnedah	b	79	40	0
Coonab'an	b	104	40	0
P. Macqrie	o	73	52	0
Murr'undi	b	63	43	0
Cassilis ..	b	74	..	0
Mus'brook	b	86	46	0
Dubbo.. .	b	70	54	0
Mudgee ..	b	75	44	0
Maitland .	b	71	..	0
Newcastle	b	67	48	0
Orange ..	b	72	36	0
Bathurst..	b	68	48	0
MtVictoria	b	66	35	0
Forbes.. .	u	67	56	0
Bendemeer	b	70	40	0
SYDNEY	b	62	50	0
Wentw'th	b	83	45	0
Young...	u	67	47	0
Woll'gong	b	61	47	0
Moss Vale	b	60	40	0
Euston. ..	u	63	59	0
Goulburn.	b	65	41	0
Wagga. ..	u	74	44	0
Cape Geo.	b	61	..	0
Queanb'an	b	73	46	0
Deniliquin	u	74	41	0
Albury. ..	u	76	41	0
Bodalla ..	b	69	45	0
Cooma . ..	c	63	34	0
Eden.....	b	62	46	0
Gabo Isld.	b	64	49	0

METEOROLOGICAL REPORTS.—OCTOBER 28.

South Australia reports heavy, boisterous weather, with severe dust storm in centre of continent, followed by light rain and thunderstorms; hail and thunderstorm, with strong W.N.W. squall and rough sea at Port; squally at Adelaide from N.W., rain 0·01; ditto at Mount Gambier, 0·23. Victoria: Cloudy; showery at Cape Otway and Portland, sea smooth, barometers falling; rain at Cape Otway, 0·17; Portland, 0·16; and Wilson's Promontory, 0·01. New South Wales: Fine, with light variable winds and calms, barometers falling, sea smooth; cloudy at Inverell, Forbes, Mudgee, and Wagga, no rain. Queensland: Cooktown, calm and overcast; Cape Moreton, moderate S.E. swell; Emsdale not received, 3 p.m. Observations.—Victoria, barometers low; Melbourne, N.W., 40, heavy squalls, temperature 65°; Portland, W., 31, squally with rain, smooth sea, temperature 52°; Cape Otway, W.N.W., 48, thunderstorms, rough sea, temperature 55°; Wilson's Promontory, W., 48, thunder and hailstorms since 2.30 p.m., smooth sea, temperature 60. New South Wales: Wentworth, W., gale, stormy, temperature 77°; Lorne, W.N.W., 42, fine, temperature 77; Albury, W., 14, cloudy, temperature 70°; Goulburn, N.W., strong, fine, temperature 72°; Forbes, S.W., 28, cloudy, temperature 75°; Eden, N., 28, fine, sea light, temperature 73°; Moruya, N.E., 56, cloudy, moderate sea, temperature 67°; Cape George, N., 28, cloudy, smooth sea, temperature 73°; Sydney, N.E., 20, cloudy, smooth sea, temperature 74°; Newcastle, N.E., fresh, fine, smooth sea, temperature 76°; Port Macquarie, N.E., 14, cloudy, smooth sea, temperature 74°; Clarence River, S.E., fine, smooth sea, temperature 74°. It will be observed that the weather is very stormy to S. and S.W., and at 3 p.m. the weather had turned stormy at Wentworth. State of Rivers: Murrumbidgee, at Hay, 16 feet 6 inches above summer level; at Balranald, 16 feet above summer level; Murray, at Euston, 18 feet above summer level; Darling, at Wentworth, 16 feet 6 inches above summer level; at Louth, 21 feet 9 inches above summer level; at Menindee, 27 feet 8 inches above summer level; at Wilcannia, 36 feet 5 inches above summer level.

WEATHER MAP.

28 OCT'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·045

Total Rainfall from 1 Jan. to 28 October ....57·867.

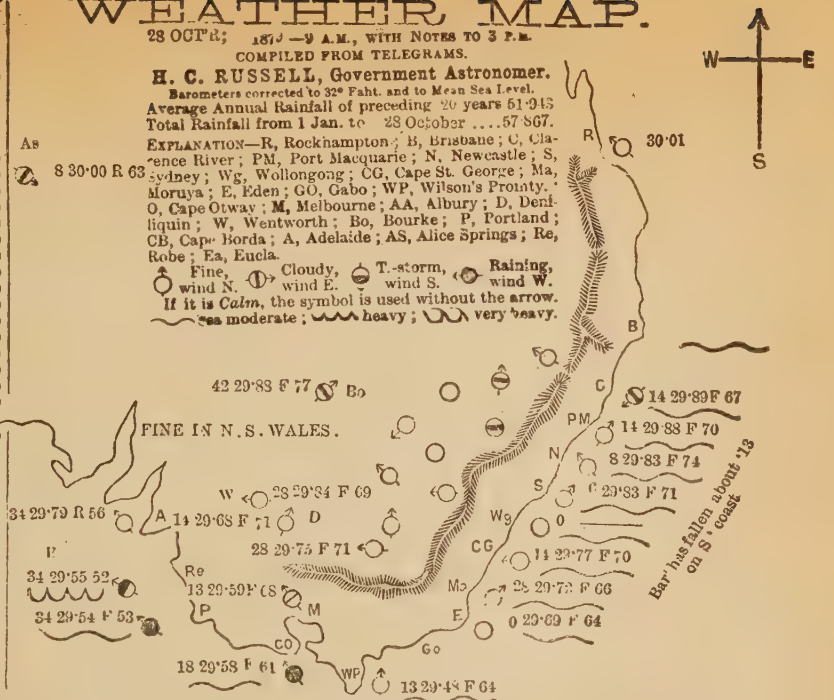
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	76	53	0
Grafton..	b	88	47	0
Inverell..	u	78	43	0
Walgett..	..	..	..	.
Bourke ..	b	92	68	0
Narrabri..	b	82	56	0
Armidale.	b	79	44	0
Gunnedah	c	93	72	0
Coonab'an	b	107	50	0
P. Macqrie	o	70	59	0
Murr'undi	b	71	55	0
Cassilis ..	b	87	..	0
Mus'brook	b	85	54	0
Dubbo...	c	72	60	0
Mudgee ..	u	78	..	0
Maitland .	b	78	..	0
Newcastle	b	75	56	0
Orange ..	b	83	39	0
Bathurst..	b	71	43	0
MtVictoria	b	73	48	0
Forbes...	b	72	60	0
Bendemeer	b	78	47	0
SYDNEY	b	72	55	0
Wentw'th	b	87	54	0
Young...	b	79	52	0
Woll'gong	b	69	55	0
Moss Vale	b	72	48	0
Euston...	b	64	53	0
Goulburn.	b	72	44	0
Wagga...	u	77	41	0
Cape Geo.	b	73	..	0
Queanb'an	b	74	47	0
Deniliquin	b	83	50	0
Albury...	b	81	50	0
Bodalla ...	b	71	45	0
Cooma...	b	73	47	0
Eden.....	b	64	46	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—OCTOBER 29.

South Australia: Cloudy and showery, squally, with rough sea on coast, barometers falling, wind N.W. and W.N.W., rain at Adelaide 0·12, Cape Borda 0·03, and Robe 0·07. Victoria: Cloudy, showery, and squally, with rising barometers and rough sea on coast; rain, Melbourne 0·04, Cape Otway 0·35, and Portland 0·70. New South Wales: Fine, with light S.W. winds, rising barometers and smooth sea, cloudy at Grafton and Tenterfield. Queensland: Brisbane overcast, with light W. wind; rain, 1·06, sea smooth, calm, very oppressive. 3 p.m. Observations.—Victoria: Melbourne, N.N.W., 18, cloudy, temperature 64°; Portland, N.N.W., 40, gloomy, sea smooth, temperature 57°; Cape Otway, N.W., 28, light rain, sea rather rough, temperature 58°. New South Wales: Wentworth, N., cloudy, temperature 70°; Deniliquin, N.W., fine, temperature 69°; Albury, W., light, fine, temperature 65°; Goulburn, W., fine, temperature 64°; Forbes, W., 28, fine, temperature 66°; Eden, S.W., 14, fine, sea smooth, temperature 71°; Moruya, E.N.E., 56, fine, sea smooth, temperature 65°; Cape George, E., 14, cloudy, sea smooth, temperature 64°; Sydney, E.S.E., 8, fine, sea smooth, temperature 68°; Newcastle, S.E., 20, fine, sea smooth, temperature 72°; Port Macquarie, S., 56, fine, sea smooth, temperature 72°. State of Rivers: Murrumbidgee, at Wagga, 17 feet above summer level; Hay, 14 feet 6 inches above summer level; at Balranald, 16 feet above summer level; Murray, at Albury, 11 feet 9 inches above summer level; at Euston, 22 feet above summer level; Darling, at Wentworth, 18 feet 8 inches above summer level; at Pooncarie, 21 feet 10 inches above summer level; at Menindee, 27 feet 9 inches above summer level; at Wilcannia, 33 feet 4 inches above summer level.

ASTRONOMICAL MEMORANDA FOR OCTOBER 30.—Sun rises at 5.4 sets at 6.24; Moon, 6.57 p.m., 4.29 a.m.; Mercury, 5.46 a.m., 7.31 p.m.; Venus, 3.11 a.m., 3.11 p.m.; Mars, 7.40 p.m., 6.4 a.m. Jupiter, 1.17 p.m., 2.19 a.m.; Saturn, 4.15 p.m., 4.5 a.m. New moon, 16th; full moon, 30th.

WEATHER MAP.

29 OCTOBER; 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 29 October ....57·867.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	82	61	0·75
Grafton..	u	96	56	0
Inverell..	b	84	64	0
Walgett..	..	..	..	.
Bourke ..	b	94	55	0
Narra'ori..	b	86	64	0
Armidale.	b	80	48	0
Gunnedah	.	..	..	..
Coonab'an	b	88	54	0
P. Macqrie	m	76	65	0
Murr'undi	b	80	62	0
Cassilis ..	b	87	..	0
Mus'brook	b	99	64	0
Dubbo...	b	83	50	0
Mudgee ..	b	84	52	0
Maitland .	b	88	68	0
Newcastle	b	81	66	0
Orange ..	b	89	37	0
Bathurst..	b	79	46	0
MtVictoria	b	82	43	0
Forbes...	b	68	49	0
Bendemeer	b	81	58	0
28 29·99 73				
SYDNEY	b	79	62	0
Wentw'th	b	77	43	0
Young...	b	81	50	0
Woll'gong	b	77	58	0
Moss Vale	b	81	46	0
Euston...	b	65	43	0
Goulburn.	b	85	44	0
Wagga...	b	86	49	0
Cape Geo.	b	71	..	0
Queanb'an	b	83	45	0
Deniliquin	b	83	40	0
Albury...	b	86	45	0
Bodalla ..	b	83	52	0·06
Cooma...	b	78	31	0
Eden.....	b	72	62	0
Gabo Isld.	b	75	54	0

METEOROLOGICAL REPORTS.—OCTOBER 30.

South Australia: Cloudy in east part of the colony, raining at Robe. Fine weather westward at Adelaide and Eucla, also inland at Alice Springs, and on south coast at Port Darwin, sea moderate and rough, barometers steady, moderate west winds, rain at Robe 0·15. Victoria: Cloudy, raining heavily at Cape Otway 0·61, and showery at Wilson's Promontory 0·42, sea rough and moderate, barometers steady, wind fresh from W and N.W. New South Wales: Fine, few clouds, S. at Albury, Eden, and Cooma, and S.W. at Wentworth, Euston, and Deniliquin, sea smooth on coast with light N.W. wind, and steady barometers, no rain. Queensland: Brisbane, fine with light S.E. wind, smooth sea and rising barometers, rain 0·05; Cooktown, clear with light N.N.E. breeze. 3 p.m. Observations.—Victoria: Melbourne, W.S.W., 18, showery, temperature 56°; Portland, W.S.W., 34, showery, sea smooth, temperature 60°; Cape Otway, W., 28, cloudy, rough sea, temperature 61°; Wilson's Promontory, W., 23, showery, moderate sea, temperature 54°. New South Wales: Wentworth, W. strong, fine, hot, temperature 81°; Deniliquin, N., fine, temperature 70. Albury, calm, cloudy, temperature 65°; Goulburn, W., strong gale, temperature 67°; Forbes, S.W., fine, temperature 70°; Eden, N., 14, fine, sea light, temperature 61°; Moruya, W., 42, dull, sea smooth, temperature 72°; Cape George, N., 28, cloudy, sea smooth, temperature 62.; Sydney, N.E., 8, cloudy, sea smooth, temperature 76°; Newcastle, N.E., 14, fine, sea smooth, temperature 77°; Port Macquarie, N.E., 42, fine, sea smooth, temperature 72; Clarence River, S.E., 28, fine, sea smooth, temperature 73°. State of Rivers: Murrumbidgee, at Wagga, 14 feet above summer level; Hay, 4 feet 3 inches above summer level; at Barranald, 16 feet 2 inches above summer level; Murray, at Albury, 11 feet 9 inches above summer level; at Euston, 22 feet above summer level; Darling, at Wentworth, 18 feet 10 inches above summer level; at Pooncarie, 21 feet 10 inches above summer level; at Menindie, 27 feet 0 inches above summer level; at Wilcannia, 33 feet 4 inches above summer level.

WEATHER MAP.

30 OCTR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 30 October ....57·867.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	74	57	0
Grafton..	b	89	49	0
Inverell..	b	84	43	0
Walgett..	..		..	..
Bourke ..	b	83	58	0
Narrabri..	b	79	43	0
Armidale.	b	86	54	0
Gunnedah	b	86	40	0
Coonab'an	b	97	35	0
P. Macqrie	b	72	53	0
Murr'undi	b	75	61	0
Cassilis ..	b	75	..	0
Mus'brook	b	99	43	0
Dubbo...	b	71	51	0
Mudgee ..	b	78	43	0
Maitland .	b	79	55	0
Newcastle	b	77	55	0
Orange ..	b	81	33	0
Bathurst..	b	66	38	0
MtVictoria	b	67	42	0
Forbes...	b	77	58	0
Bendemeer	b	74	50	0
SYDNEY	b	72	53	0
Wentw'th	c	73	50	0
Young...	b	69	43	0
Woll'gong	b	74	55	0
Moss Vale	b	65	45	0
Euston...	u	64	53	0
Goulburn.	b	64	39	0
Wagga...	b	70	36	0
Cape Geo.	b	66	..	0
Queanb'an	b	69	40	0
Deniliquin	u	70	42	0
Albury...	u	73	47	0
Bodalla ..	u	73	46	0
Cooma...	u	66	43	0
Eden.....	b	70	51	0
Gabo Isld.	b	66	56	0

Oct 31

METEOROLOGICAL REPORTS.—[redacted]1.

South Australia: Fine generally, light clouds on S.E. coast, barometers rising, sea smooth, wind light from N. and N.W., temperature at Eucla 101° in the shade at 9 a.m., hot N. wind; rain at Adelaide 0·05. Victoria: Cloudy with light W. winds, steady barometers and smooth sea; rain at Melbourne, 0·30; Cape Otway, 0·05, and Wilson's Promontory, 0·02. New South Wales: Fine clear weather throughout, clouds at Cape St. George and Moruya, smooth sea, light S. winds and rising barometers on coast, fine and calm inland, barometers rising, no rain. Queensland: Brisbane, fine with light S. wind and smooth sea; Cooktown, calm and showery, rain 0·03. 3 p.m. Observations.—Victoria: Melbourne, barometers steady, S.S.W., 8, cloudy, 65°; Portland, no report; Cape Otway, W., 18, cloudy, moderate sea, 64; Wilson's Promontory, W.N.W., 34, cloudy, rough sea, 58°. New South Wales: Deniliquin, S.W., 14, fine, 72°; Albury, W., 14, fine, 68°; Goulburn, W., fine, 69°; Forbes, S.W., 14, fine, 70°; Eden, E., 14, fine, sea smooth, 64°; Moruya, E., 20, cloudy, sea smooth, 65°; Sydney, S.E., 14, cloudy, sea smooth, 67°; Newcastle, S., 14, fine, sea smooth, 75°; Port Macquarie, N.E., 28, fine sea smooth, 75°; Clarence River, N.E., 14, fine, sea smooth, 75°. State of Rivers: Murrumbidgee, at Wagga, 12 feet 3 inches above summer level; at Hay, 14 feet above summer level; at Balranald, 16 feet 1 inch above summer level. Murray, at Albury, 11 feet 6 inches above summer level; at Euston, 18 feet 3 inches above summer level. Darling, at Wentworth, 19 feet above summer level; at Pooncarie, 21 feet 10 inches above summer level; at Menindie, 27 feet 11 inches above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

31 OCT'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 31 October ....57·867.

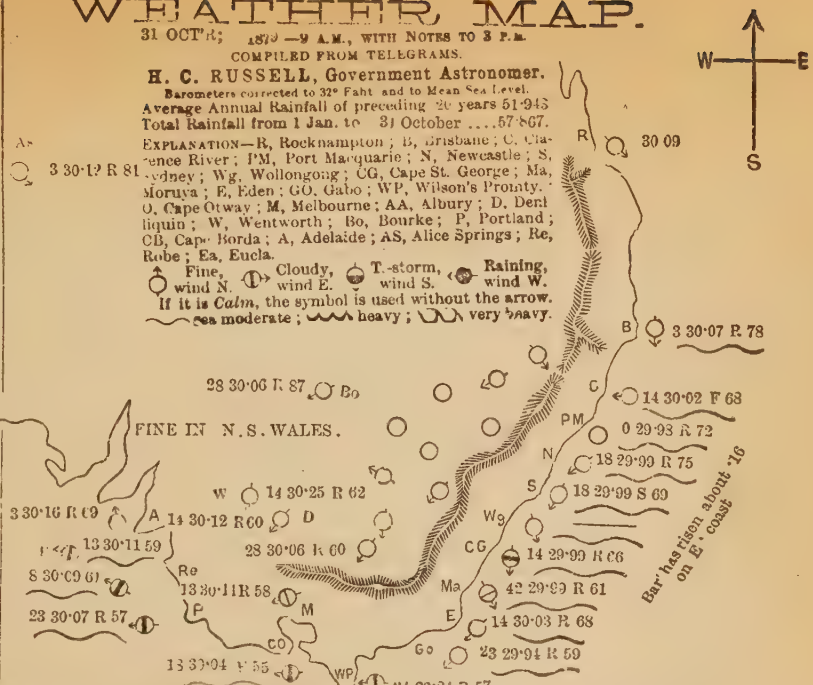
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'Th'r	Max	Min	Rain
Tenterfi'ld	b	75	47	0
Grafton..	b	87	46	0
Inverell..	b	85	44	0
Walgett..	..	..	..	.
Bourke ..	b	76	61	0
Narrabri..	b	81	52	0
Armidale.	b	86	48	0
Gunnedah	b	88	40	0
Coonab'an	b	106	40	0
P. Macqrie	b	74	55	0
Murr'undi	b	75	52	0
Cassilis ..	b	82	..	0
Mus'brook	b	91	50	0
Dubbo...	b	73	54	0
Mudgee ..	b	78	42	0
Maitland .	b	83	55	0
Newcastle	b	84	58	0
Orange ..	b	83	39	0
Bathurst..	b	71	48	0
MtVictoria	b	70	48	0
Forbes...	b	71	58	0
Bendemeer	..	..	..	..
SYDNEY	b	72	61	0
Wentwth	b	86	49	0
Young...	b	73	48	0
Woll'gong	b	71	60	0
Moss Vale	b	71	51	0
Euston...	b	71	60	0
Goulburn.	b	72	45	0
Wagga ..	b	71	40	0
Cape Geo.	b	75	..	0
Queanb'an	b	76	45	0
Deniliquin	b	77	43	0
Albury...	b	67	41	0
Bodalla ..	c	73	49	0
Cooma...	b	56	37	0
Eden.....	b	68	53	0
Gabo Isld.	b	73	55	0



METEOROLOGICAL REPORTS.—NOVEMBER 1.

South Australia: Cloudy generally, and hot and sultry, light N. and S.W. winds; sea smooth, barometers falling, no rain; hot N. wind at Adelaide. Victoria: Cloudy, with fresh northerly winds; sea smooth, and falling barometers; no rain. New South Wales: Fine throughout; light clouds at Sydney, Cooma, and West Maitland; sea smooth, with light variable winds and rising barometers on coast; fine and calm inland, barometers falling. Queensland: Smooth sea at Brisbane. 3 p.m. Observations.—New South Wales: Wentworth, N., strong, hot, temperature 87°; Deniliquin, N., 14, fine, temperature 79°; Goulburn, N.W., fine, temperature 72°; Forbes, calm, fine, temperature 74°; Eden, N.E., 14, fine, sea smooth, temperature 67°; Moruya, N.E., 30, fine, hazy, sea moderate, temperature, 66°; Cape George, N., 14, fine, sea smooth, temperature 67°; Sydney, N.E., 20, fine, sea smooth; Port Macquarie, N.E., 20, fine, sea smooth, temperature 74°; Clarence River, S.E., 20, fine, sea smooth, temperature 76°. State of Rivers: Murrumbidgee, at Wagga, 11 feet 3 inches above summer level; at Hay, 14 feet above summer level; at Balranald, 15 feet 11 inches above summer level. Murray, at Albury, 11 feet 4 inches above summer level; at Euston, 20 feet 2 inches above summer level. Darling, at Wentworth, 19 feet above summer level; at Menindie, 28 feet above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

1 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 1 November..57·867.

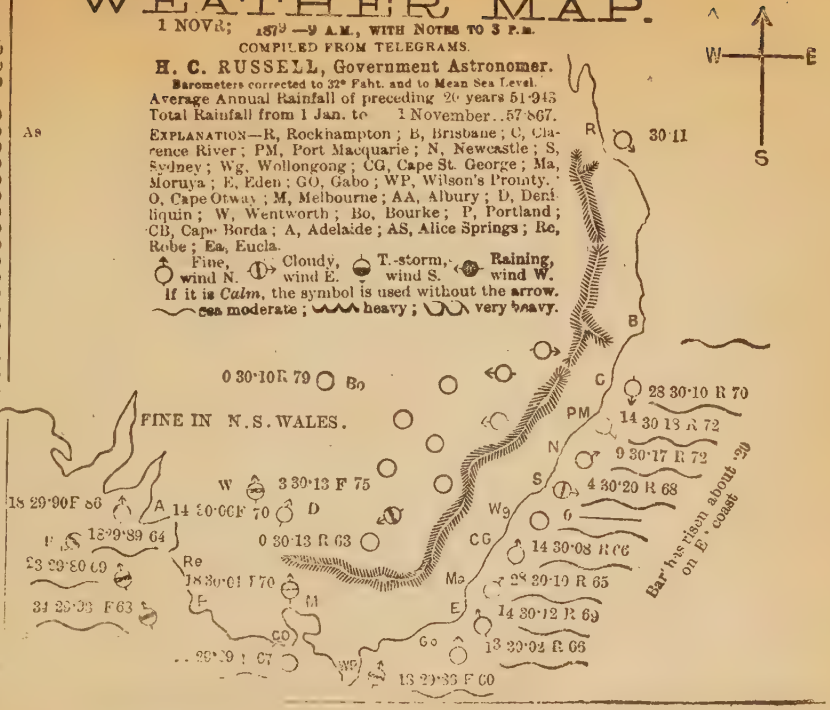
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Fenterfi'ld	b	78	47	0
Grafton..	b	99	47	0
Inverell..	b	86	45	0
Walgett..	..	..	..	..
Bourke ..	b	93	60	0
Narrabri..	b	85	49	0
Armidale.	b	87	50	0
Guanedah	b	93	50	0
Co'nab'an	b	106	45	0
P. Macqrie	b	77	64	0
Murr'mdi	b	80	57	0
Cassilis ..	b	87	..	0
Mus'brook	b	84	58	0
Dubbo...	b	79	56	0
Mudgee ..	b	82	55	0
Maitland .	u	86	64	0
Newcastle	b	78	63	0
Orange ..	b	90	38	0
Bathurst..	b	74	43	0
MtVictoria	b	76	47	0
Forbes...	b	73	63	0
Bondemeer	b	79	57	0
		Ea		
SYDNEY	c	72	60	0
Wentw'th	b	86	55	0
Young...	b	73	47	0
Woll'gong	b	68	59	0
Moss Vale	b	72	54	0
Euston...	b	78	56	0
Goulburn.	b	74	43	0
Wagga ..	b	77	39	0
Cape Geo.	b	66	..	0
Queanb'an	b	77	49	0
Deniliquin	b	76	49	0
Albury...	b	77	42	0
Bodalla ..	b	72	44	0
Cooma...	u	77	39	0
Eden ..	[illegible]	[illegible]	[illegible]	0



METEOROLOGICAL REPORTS.—NOVEMBER 3.

South Australia: Cloudy, barometers steady, sea smooth, heavy thunderstorms and rain in tropics, over two inches measured at places; light S.W. wind and calm on S. coast. Victoria: Cloudy sky, smooth sea, steady barometers, and light variable winds; rain at Melbourne 0·05, and Portland, 0.03. New South Wales: Cloudy on coast generally, with falling barometers, smooth sea and light variable winds; fine and calm inland; rain at Sydney 0·008; Cape George, 0·050; Moruya, 0·100; Eden, 0·010; and Gabo Island, 0·380. Queensland: Brisbane, fine, with light N. wind and smooth sea; Cooktown, S.E., 40, squally weather. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.W., 13, cloudy, temperature 63°; Portland, W.S.W, 28, cloudy, smooth sea, temperature 61°; Cape Otway, W., 18, cloudy, smooth sea, temperature 61°; Wilson's Promontory, W., 23, cloudy, moderate sea, temperature 60°. New South Wales; Wentworth, S.S.W., raining, temperature 69°; Deniliquin, calm, sultry, temperature 78°; Albury, N., 14, fine, hazy; Goulburn, calm, dull, temperature 71°; Forbes, calm, cloudy, temperatnre 71°; Eden, N., 28, fine, light sea, temperature 74°; Cape George, calm, cloudy, sea smooth, temperature 72°; Sydney, S., 14, cloudy, temperature 67°; Newcastle, S.S.W., fresh, dull, sea smooth, temperature 70°; Port Macquarie, S.S.E., 28, cloudy, sea smooth, temperature 76°; Clarence River, N.E., 28, storm with lightning, sea smooth, temperature 74°. State of Rivers: Murrumbidgee, at Wagga, 9 feet 9 inches above summer level; at Hay, 20 feet 6 inches above summer level; at Balranald, 15 feet 6 inches above summer level. Murray, at Albury, 9 feet 9 inches above summer level; at Euston, 20 feet 4 inches above summer level. Darling, at Wentworth, 19 feet 3 inches above summer level; at Pooncarie, 22 feet above summer level; at Menindie, 28 feet above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

3 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

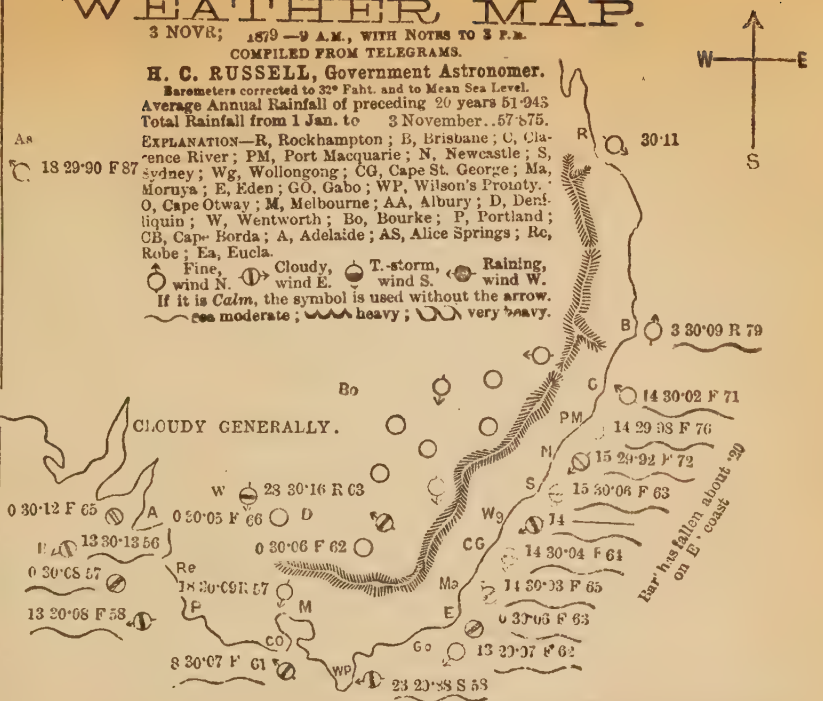
Total Rainfall from 1 Jan. to 3 November..57·875.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Prontoy. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.



Stations	Wth'r	Max	Min	Rain
Tenterfi'ld	b	79	53	0
Grafton..	b	89	51	0
Inverell..	b	81	50	0
Walgett..	..	..	..	..
Bourke ..	..	..	..	..
Narrabri..	b	88	64	0
Armidale.	..	..	..	..
Gunnedah	c	96	54	0
Coonab'an	b	94	53	0
P. Macqrie	b	79	65	0
Murr'undi	u	81	56	0
Cassilis ..	u	91	..	0
Mus'brook	b	10[illegible]	56	0
Dubbo...	c	82	60	0
Mudgee ..	b	89	56	0
Maitland .	u	91	60	0
Newcastle	u	82	63	0
Orange ..	c	80	44	0
Bathurst..	b	81	48	0
MtVictoria	u	78	53	0
Forbes...	b	79	66	0
Bendemeer	b	89	52	0
SYDNEY	b	75	62	0·01
Wentw'th	u	93	54	0
Young...	b	82	51	0
Woll'gong	c	75	61	0
Moss Vale	f	76	50	0
Euston...	u	54	..	0
Goulburn.	u	80	53	0
Wagga...	b	82	57	0
Cape Geo.	c	75	..	0·05
Queanb'an	b	83	53	0
Deniliquin	b	87	48	0
Albury...	b	86	55	0
Bodalla ..	u	76	61	0
Cooma...	u	74	49	0·08
Eden.....	b	66	57	0·01
Gabo Isld.	b	65	55	0·38

METEOROLOGICAL REPORTS.—NOVEMBER 4.

South Australia: Reports cloudy weather generally, heavy rains north of Adelaide and westward as far as Eucla, smooth sea, falling barometers, and light S. winds on coast, rain at Adelaide 0·03, Eucla, 0·56, and Port Darwin, 0·02, Mount Gambier, 30·06, calm, cloudy, 5·0. Victoria: Gloomy and threateuing, with smooth sea, steady bar, and light S. and S.W. winds, rain at Melbourne, 0·02. New South Wales: Reports cloudy weather from nearly all stations, raining at Wentworth only, steady barometers, smooth sea, and light S.E. and S.W. winds on coast Queensland: Brisbane, fine and calm, with smooth sea and rising barometer. 3 p.m. observations.—Victoria: Barameters steady: Melbourne: No report; Portland: Cloudy, smooth sea: Cape Otway: W.S.W., 8, cloudy, moderate sea, temperature, 58·; Wilson's Promontory: W., 23, cloudy, moderate sea, 59·. New South Wales: Wentworth: S.E., raining. temperature, 65·; Deniliquin: S.S.W., 14, gloomy, temperature, 74·; Albury: W., 14, dull, temperature, 72; Goulburn: Calm, fine, temperature, 71·; Forbes, Calm, cloudy, temperature, 71; Eden, E.S.E., fine, sea smooth, temperature, 61·; Moruya, S.E., 14, fiine, sea smooth, temperature, 63·; Cape George, S., 28, cloudy, sea smooth, temperature, 63·; Sydney, S.E., 8, dull, sea smooth, temperature 67·; Newcastle, S.E., 14, dull, sea smooth, temperature 76·; Port Macquarie, E., 14, fine, sultry, sea smooth, temperature 74·; Clarence River, N.E., 14, thunderstorm, sea smooth, temperature 76·. State of Rivers: Murrumbidgee, at Wagga, 9 feet 6 inches above summer level. Murray, at Albury, 9 feet 3 inches above summer level. Darling, at Wentworth, 19 feet 4 inches above summer level; at Pooncarie, 22 feet above summer level; at Menindie, 28 feet above summer level; at Wilcannia, 33 feet 8 inches above summer level.

WEATHER MAP.

4 NOVR; 1878 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 4 November..57·875.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'thr	Max	Min	Rain
Tenterfi'ld	c	82	58	0
Grafton..	b	93	53	0·29
Inverell..	u	83	63	0
Walgett..	..	..	..	..
Bourke ..	b	100	70	0
Narra'ri..	u	81	66	0
Armidale.	b	84	49	0·17
Gunnedah	c	98	61	0
Coonab'an	c	95	57	0
P. Macqrie	b	77	64	0·98
Murr'undi	c	84	63	0
Cassilis ..	u	87	..	0
Mus'brook	u	87	65	0
Dubbo.. .	b	82	..	0
Mudgee ..	u	85	62	0
Maitland .	c	80	68	0·14
Newcastle	b	76	62	0·01
Orange ..	u	80	42	0
Bathurst..	b	80	53	0
MtVictoria	c	73	51	0
Forbes.. .	c	76	61	0
Bendemeer	b	82	55	0
SYDNEY	u	69	62	0
Wentw'th	r	69	54	0·18
Young...	u	81	59	0
Woll'gong	c	60	54	0
Moss Vale	f	71	55	0
Euston. ..	u	61	58	0·05
Goulburn.	u	79	55	0
Wagga. ..	b	84	50	0
Cape Geo.	..	..	..	..
Queanb'an	b	81	56	0
Deniliquin	u	82	39	0
Albury. ..	m	84	50	0
Bodalla ..	u	73	52	0
Cooma . ..	c	80	48	0
Eden.... .	b	66	56	0
Gabo Isld.	u	70	56	0

METEOROLOGICAL REPORTS.—November 5.

South Australia: Fine, with clouds on coast; raining in interior; sea smooth, with steady barometer and light easterly weather on coast; rain at Adelaide, 0·03. Victoria: Cloudy, barometers steady; sea smooth, save at Cape Otway; wind light from E. and S.W.; no rain. New South Wales: Cloudy generally; raining at Goulburn and showery at Eden; light southerly winds prevail on coast; sea smooth; barometers falling; rains very general yesterday, see weather map. Queensland: Brisbane, cloudy with light S.W. winds and smooth sea. 3 p.m. Observations.—Victoria: Melbourne, S.W., 13, cloudy, temperature 59·; Portland, E.S.E., 23, fine, sea smooth, temperature 60·; Cape Otway, S.E., 8, fine, sea rough, temperature 59·; Wilson's Promontory, S.W., 23, cloudy, sea smooth, temperature 56·. New South Wales: Deniliquin, S.W., 14, fine, temperature 75·; Albury, calm, fine, temperature 74·; Goulburn, S., showery, temperature 62·; Forbes, calm, dull, temperature 70·; Eden, S., 14, dull, sea smooth, temperature 60·; Moruya, S., 42, showery, sea moderate, temperature 55·; Cape George, S., 28, raining, sea smooth, temperature 57·; Sydney, S.E., 14, dull, sea smooth, temperature 64·; Newcastle, S.S.W., cloudy, smooth sea, temperature 70·; Port Macquarie, E.N.E., 14, fine, smooth sea, temperature 74·; Clarence River, S.E., 14, dull, smooth sea, temperature, 74· State of Rivers: Murrumbidgee, at Wagga, 8 feet 9 inches above summer level; at Hay, 22 feet 6 inches above summer level; at Balranald, 15 feet 4 inches above summer level. Murray, at Albury, 8 feet 8 inches above summer level; at Euston, 20 feet 4 inches above summer level. Darling, at Wentworth, 19 feet 6 inches above summer level; at Pooncarie, 22 feet above summer level; at Menindie, 28 feet above summer level; at Wilcannia, 33 feet 3 inches above summer level.

WEATHER MAP.

5 NOVR; 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 5 November..58·098.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	82	58	0·99
Grafton..	u	91	55	1·06
Inverell..	b	83	63	0
Walgett..	..	..	..	..
Bourke ..	b	94	66	0·14
Narra'bri..	u	87	65	0·20
Armidale.	u	85	37	0·10
Gunnedah	c	98	60	0·38
Coonab'an	b	88	60	0·22
P. Macqrie	u	76	67	0·75
Murr'umb	c	82	63	0·53
Cassilis ..	u	89	..	0
Mus'brook	u	96	63	0·19
Dubbo...	b	80	62	0
Mudgee ..	u	82	62	0·13
Maitland .	b	73	66	0·10
Newcastle	b	77	64	0·07
Orange ..	u	73	56	0·27
Bathurst..	u	71	56	0·25
MtVictoria	u	75	52	0·06
Forbes...	u	72	60	0
Bendemeer	u	80	48	1·20
SYDNEY	u	72	62	0·22
Wentw'th	u	67	52	0·92
Young...	u	78	59	0·85
Woll'gong	c	69	59	1·44
Moss Vale	u	71	54	0·59
Euston...	u	71	53	0·16
Goulburn.	r	77	51	0·82
Wagga...	b	81	57	0·41
Cape Geo.	..	..	..	..
Queanb'an	u	81	57	0·40
Deniliquin	b	75	50	0·09
Albury...	b	85	55	0
Bodalla ..	r	74	52	0·52
Cooma...	c	76	56	0·32
Eden.....	p	62	53	0·16
Gabo Isld.	u	62	55	0

METEOROLOGICAL REPORTS.—NOVEMBER 6.

South Australia: No 9 a.m. telegrams. Victoria: No 9 a.m. telegrams. New South Wales: Cloudy generally, smooth sea, light S. winds and rising barometers on coast; showery at Cape St. George and Moruya; fine and calm inland, barometers falling at Bourke and Wentworth. For rain measurement see weather map. Queensland: Cape Moreton reports moderate easterly sea; Cooktown, fine, light N.E. breeze. 3 p.m. Observations.—Victoria: Melbourne, barometer 29·89, temperature 61·, S., 8, cloudy; Portland, barometer 29·84, temperature 61·, N., 3, cloudy, smooth sea; Cape Otway, barometer 29·99, temperature 58·, E., 18, fine, rough sea; Wilson's Promontory, barometer 29·80, temperature 63·, E.N.E., 23, cloudy, smooth sea. New South Wales: Deniliquin, calm, fine, temperature 77·; Forbes, calm, cloudy, temperature 75·; Goulburn, calm, fine, temperature 66·; Albury, W., cloudy, temperature 75·; Eden, E., 14, fine, light sea, temperature 65·; Moruya, E.N.E., 28, dull, smooth sea, temperature 58·; Cape George, S., 42, cloudy, light sea, temperature 61·; Sydney, S.S.E., 8, dull, smooth sea, temperature 65·; Newcastle, S., 14, cloudy, smooth sea, temperature 71·; Port Macquarie, E., 14, fine, smooth sea, temperature, 73·; Clarence River, S., 14, fine, smooth sea, temperature 74· State of Rivers: Murrumbidgee, at Wagga, 8 feet 6 inches above summer level; at Hay, 22 feet 3 inches above summer level; at Balranald, 27 feet above summer level. Murray, at Albury, 8 feet 3 inches above summer level; at Euston, 20 feet 3 inches above summer level. Darling, at Wentworth, 19 feet 7 inches above summer level; at Pooncarie, 22 feet 9 inches above summer level; at Menindie, 28 feet above summer level; at Wilcannia, 33 feet 5 inches above summer level.

WEATHER MAP.

6 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 6 November..58·268.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	u	83	59	1·55
Grafton..	u	83	52	0·67
Inverell..	..	..	..	..
Walgett..	..	..	..	..
Bourke ..	b	91	66	0·30
Narrabri..	b	85	64	0
Armidale.	b	86	52	0·35
Gunnedah	b	88	36	0·06
Coonab'an	b	88	56	0·02
P. Macqrie	u	79	64	0·10
Murr'undi	c	75	60	0·68
Cassilis ..	u	84	..	0·05
Mus'brook	u	93	61	0·03
Dubbo...	b	80	63	0
Mudgee ..	u	83	63	0
Maitland .	u	81	64	0
Newcastle	b	82	61	0·07
Orange ..	c	84	46	0
Bathurst..	c	72	53	0
MtVictoria	u	71	49	0·93
Forbes...	b	73	60	0
Bendemeer	b	79	48	0·23
SYDNEY	b	66	59	0·17
Wentw'th	b	74	51	0
Young...	b	71	57	0
Woll'gong	c	66	58	0
Moss Vale	u	62	51	0·04
Euston...	b	80	50	0
Goulburn.	u	77	50	0·10
Wagga...	b	80	50	0
Cape Geo.	d	58	..	0·77
Queanb'an	u	65	54	0·18
Deniliquin	b	79	51	0
Albury...	b	85	55	0
Bodalla ..	r	65	51	0·28
Cooma...	c	65	48	0·37
Eden.....	u	61	53	0·02
Gabo Isld.	u	63	54	0

METEOROLOGICAL REPORTS.—NOVEMBER 7.

South Australia: Fine and hot, with light northerly winds, smooth sea, and falling barometers; rain at Mount Gambier, 0·08. Victoria: Fine, clouded sky at Cape Otway; smooth sea, with light E. wind and steady barometers on coast: rain at Portland, 0·01. New South Wales: Fine generally at inland station and cloudy, without rain, on coast; thunderstorm at Coonabarabran and showery at Wentworth, smooth sea, with falling barometers and light and very variable winds on coast; see map for rain measurements. Queensland: Sea smooth at Brisbane heads. 3 p.m. Observations. —Victoria: Melbourne, S., 13, cloudy, temperature 73·; Portland, S.E., 13, fine, sea smooth, temperature 69·; Cape Otway, E.S.E., 13, cloudy, sea smooth, temperature 56·; Wilson's Promontory, W.S.W., 18, cloudy, light sea, temperature 61·. New South Wales: Deniliquin, W.N.W., 14, fine, temperature 63·; Albury, W., 14, cloudy, temperature 75·; Goulburn, W., fine, temperature 71·; Forbes, calm, fine, temperature 76·; Eden, N.E., 28, fine, light E. sea, temperature 68·; Moruya, N.E., 20, fine, sea moderate, temperature 80·; Cape George, N.E., 28, fine, sea smooth, temperature 67·; Sydney, E., 8, fine, sea smooth, temperature 72·; Newcastle, E., 14, threatening thunderstorm, sea smooth, temperature 79·; Port Macquarie, N.E., 14, fine, sea smooth, temperature 73·; Clarence River, S.E., 14, fine, sea smooth, temperature 75· State of Rivers: Murrumbidgee, at Wagga, 9 feet 3 inches above summer level; at Hay, 22 feet 5 inches above summer level; at Balranald, 15 feet above summer level. Murray, at Albury, 7 feet 9 inches above summer level; at Euston, 20 feet 2 inches above summer level. Darling, at Wentworth, 19 feet 8 inches above summer level; at Pooncarie, 22 feet 2 inches above summer level; at Menindie, 28 feet 3 inches above summer level; at Wilcannia, 33 feet 9 inches above summer level.

WEATHER MAP.

7 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·043

Total Rainfall from 1 Jan. to 7 November..58·268.

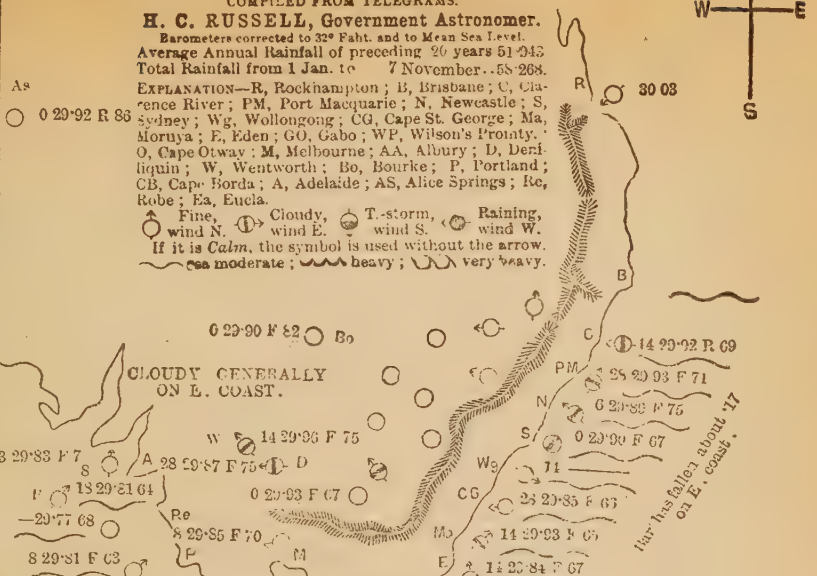
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'thr	Max	Min	Rain
Tenterfi'ld	b	77	58	0
Grafton..	b	83	54	0·21
Inverell..	b	83	65	0
Walgett..	.	..	..	..
Bourke ..	b	91	63	0
Narra'bri..	b	87	66	0
Armidale.	b	85	49	0
Gunnedah	b	93	58	0·18
Coonab'an	t	106	55	0·11
P. Macqrie	u	75	65	1·03
Murr'undi	b	75	52	0
Cassilis ..	u	82	..	0
Mus'brook	b	93	63	0
Dubbo...	b	82	62	0
Mudgee ..	b	85	62	0
Maitland .	u	85	64	0
Newcastle	c	79	64	0
Orange ..	b	91	56	0
Bathurst..	b	78	54	0
MtVictoria	c	70	56	0
Forbes...	b	75	60	0
Bendemeer	u	82	49	0·35
SYDNEY	b	68	60	0
Wentw'th	p	87	63	0·03
Young...	b	77	57	0
Woll'gong	b	67	57	0
Moss Vale	b	68	54	0
Euston...	u	76	61	0
Goulburn.	b	74	55	0
Wagga...	b	84	60	0
Cape Geo.	b	66	..	0·13
Queanb'an	b	73	58	0
Deniliquin	u	82	60	0
Albury...	b	83	49	0
Bodalla ..	b	72	51	0·14
Cooma...	u	70	47	0·05
Eden.....	b	68	55	0
Gabo Isld.	b	70	58	0



METEOROLOGICAL REPORTS.—NOVEMBER 8.

South Australia: Adelaide, 30·01, 61·, W., 18, gloomy and threatening; Eucla, 30·05 rising, 66·, E.S.E., 8 cloudy; Robe, 29·87, 65·, W., 8, fine, smooth sea; Alice Springs, 29·88, 74·, SE., 8, barometers rising, weather cooler to-day. Victoria: Cloudy generally, barometers steady, strong W. wind and smooth sea on coast, squally at Wilson's Promontory, fine at Portland, rain at Melbourne 0·010. New South Wales, Fine and calm up N. and inland generally, dull and threatening down S., showery at Young and Gabo Island, smooth sea with falling barometers and light northerly and N.E. winds generally on coast; see weather map for rain measurement. Queensland: Smooth easterly sea at Brisbane Heads. 3 p.m. Observations.—Victoria: Barometers steady; Portland, W., 48., squally, temperature 62·, smooth sea; Cape Otway, W., 40, temperature 64, cloudy, moderate sea; Wilson's Promontory, W., 40, fine, temperature 60· high sea; New South Wales: Wentworth, S.W., cloudy, threaenting, temperature 76·; Deniliquin, squally, temperature 82·; Albury, W., 20, fine, temperature 76·; Goulburn, W., fine, temperature 74·; Forbes, S.W., cloudy, temperature 78·; Eden, N.E., 20, fine, sea smooth, temperature 70; Moruya, N.E., 20, fine, sea smooth, temperature 76·; Cape George, S.W., fresh. thunderstorm, sea smooth; Sydney, E., 14, thunderstorm, temperature 76.; Newcastle, N.E., 20, thunderstorm, temperature 83·; Port Macquarie, N.E., cloudy, sea smooth; Clarence River, N.E., 20, fine, sea smooth. State of Rivers: Murrumbidgee, at Hay, 21 feet 1 inches above summer level; at Balranald, 14 feet 8 inches above summer level; Murray, at Albury, 7 feet 6 inches above summer level; at Euston, 20 feet 1 inch above summer level; Darling, at Wentworth, 19 feet 9 inches above summer level; at Pooncarie, 22 feet 4 inches above summer level; at Menindie, 28 feet above summer level; at Wilcannia, 33 feet 6 inches above summer level.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	79	55	0
Grafton..	b	85	50	2·24
Inverell..	b	82	58	0·14
Walgett..	.	..	..	..
Bourke ..	c	96	70	0
Narrabri..	b	89	65	0
Armidale.	b	87	48	0
Gunnedah	..	..	..	..
Coonab'an	b	111	50	0
P. Macqrie	b	77	60	0·10
Murr'undi	b	79	62	0
Cassilis ..	b	85	..	0·42
Mus'brook	b	97	61	0·14
Dubbo...	b	86	63	0
Mudgee ..	b	88	57	0
Maitland .	b	83	65	0
Newcastle	b	84	62	0·01
Orange ..	b	78	47	0
Bathurst..	b	80	52	0
MtVictoria	b	76	53	0
Forbes...	b	78	62	0·05
Bendemeer	b	84	52	0
		Ea		
SYDNEY	b	75	62	0
Wentw'th	u	83	59	0
Young...	p	79	59	0·06
Woll'gong	b	74	61	0
Moss Vale	u	78	56	0
Euston...	b	67	63	0·04
Goulburn.	b	78	49	0
Wagga .	u	86	51	0
Cape Geo.	b	71	..	0
Queanb'an	b	82	54	0
Deniliquin	b	88	66	0
Albury ..	u	89	57	0
Bocalla ..	u	80	50	0
Cooma...	u	76	47	0·02
Eden....	u	72	55	0·10
Gabo Isld.	p	71	59	0·09

WEATHER MAP.

8 NOV^R; 187^9 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

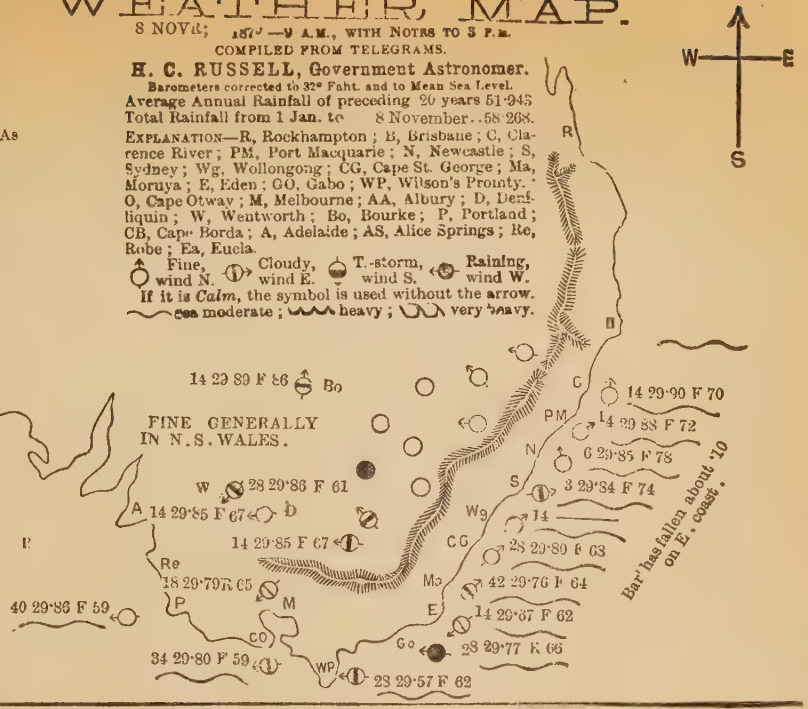
Total Rainfall from 1 Jan. to 8 November..58·268.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



METEOROLOGICAL REPORTS.—NOVEMBER 10.

South Australia: Wind generally from north, cloudy, barometer falling. Victoria: Cape Otway, westerly gale over, now cloudy, with light E. wind; Portland, barometer fallen 0·24 since yesterday, westerly gale over, wind E.N.E., 18; no telegrams from Melbourne or Wilson's Promontory. New South Wales: Fine generally, with light N.E. and N.W. winds and calms, smooth sea, with rising barometers on coast; cloudy at Moruya, Eden, and Maitland; ¾ of an inch of rain measured at Clarence Heads and Maitland. For full list, see weather map. State of Rivers: Murrumbidgee, at Hay, 21 feet 6 inches above summer level; at Balranald, 17 feet 8 inches above summer level; Murray, at Albury, 7 feet 1 inch above summer level; at Euston, 20 feet above summer level; Darling, at Wentworth, 19 feet 9 inches above summer level; at Pooncarie, 22 feet above summer level; at Menindie, 28 feet 2 inches above summer level; at Wilcannia, 33 feet 8 inches above summer level.

WEATHER MAP.

10 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 10 November..58·378.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Prounty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weath'r	Max.	Min.	Rain.
Tenterfi'ld	..	..	..	..
Grafton..	b	86	46	0·22
Inverell..	..	..	..	..
Walgett..	.	.	..	..
Bourke ..	..	.	..	.
Narrabri..	b	90	62	0
Armidale.	b	83	55	0
Gunnedah	..	.	.	..
Coonab'an	b	89	48	0
P. Macqrie	c	77	62	0
Murr'undi	b	76	55	0
Cassilis ..	b	88	..	0
Mus'brook	..	..	..	..
Dubbo...	.	..	..	..
Mudgee ..	b	88	51	0
Maitland .	c	93	67	0
Newcastle	b	74	65	0
Orange ..	b	87	39	0
Bathurst..	..	..	..	..
MtVictoria	c	82	49	0
Forbes...	b	78	59	0
Bendemeer	b	82	49	0
SYDNEY	b	73	64	0·11
Wentw'th	..	..	.	..
Young...	c	77	50	0
Woll'gong	b	78	59	0
Moss Vale	b	76	56	0
Euston...	b	76	46	0
Goulburn.	b	78	52	0
Wagga...	..	..	..	..
Cape Geo.	b	71	..	0
Queanb'an	b	82	52	0
Deniliquin	b	85	78	0
Albury...	b	87	40	0
Bodalla ..	..	..	..	..
Cooma...	b	79	43	0
Eden.....	u	68	56	0
Gabo Isld.	b	68	55	0

METEOROLOGICAL REPORTS.—NOVEMBER 11.

South Australia: No telegrams. Victoria: Dull and raining generally, with very strong westerly squalls, sea rough, barometers low and falling; rain at Melbourne, 0·41; Portland and Cape Otway, 0·32 each; and Wilson's Promontory, 0·42. New South Wales: Cloudy all down coast, and at many of the inland stations; showery on seaboard S. of Wollongong, and inland at Albury; barometers very low and falling; sea heavy at Eden and Gabo Island; rain at nearly all stations last evening. Queensland: Brisbane, barometer 29·78, N., 3, sultry, temperature 74°, rain 0·11 (for full list see weather map); Cape Moreton, no report. 3 p.m. Observations.—Victoria: Barometers risen 0·12 since 9 a.m.; Melbourne, W., 18, squally, temperature 66°; Portland, W. 48, squally, sea smooth, temperature 60°; Cape Otway, W., 56, squally with rain, rough sea, temperature 59°; Wilson's Promontory, W., 56, squally, misty, rough sea, temperature 57°. New South Wales: Albury, W., 14, cloudy, temperature 66°; Goulburn, W., fine, temperature 67°; Forbes, N.W., cloudy, temperature 74°; Moruya, W., 30, gloomy, easterly, swell setting in, temperature 70°; Cape George, W.S.W., 56, cloudy, sea light, temperature 69°; Sydney, N.W., 20, fine, sea smooth, temperature 82°; Newcastle, W.N.W. 42, fine, sea smooth, temperature 85°; Port Macquarie, N.N.E. 56, fine, sea smooth, temperature 76°; Clarence River, N.N.W., 14, fine, sea smooth, temperature 80°. State of Rivers: Murrumbidgee, at Wagga, 9 feet above summer level; Murray, at Albury, 6 feet 10 inches above summer level.

WEATHER MAP.

11 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 11 November..58·848.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

		Wind	Max	Min	Rain
[illegible]	u		82	55	0·93
[illegible]	u		84	58	0·10
[illegible]	u		81	59	1·18
[illegible]			..	..	..
[illegible]	b		95	63	0
[illegible]	b		80	60	0·14
Armidale	r		82	51	0·07
[illegible]	b		75	55	0
[illegible]	c		111	61	0·00
P. Macqrie	u		77	50	0·02
Murrumbi	u		84	52	1·11
Cassilis	b		87	..	0·15
Mus'brook	b		96	68	0·29
Gulgo	b		92	52	0
Mudgee	u		89	56	0·30
Ma tland	b		80	69	0·42
Newcastle	b		80	66	0·19
Orange	u		80	46	0·70
Bathurst	b		78	57	0·04
Mt Victoria	c		79	55	0·32
Forbes	b		78	59	0·25
Bendemeer	b		85	51	0
			Ea.		
SYDNEY	b		74	66	0·47
Wentw'th	..		..	..	..
Young	..		..	..	..
Woll'gong	p		79	58	0·67
Moss Vale	b		76	60	0·31
Euston	..		..	..	..
Goulburn	u		79	58	0·11
Wagga	u		80	51	0·35
Cape Geo.	c		70	..	0·29
Queanb'an	p		84	58	0·50
Deniliquin	..		..	..	..
Albury	r		84	53	0·39
Bodalla	p		77	60	0·36
Cooma	p		79	53	0·47
Eden	r		64	61	0·35
Gabo Isld.	r		69	60	0·08

METEOROLOGICAL REPORTS.—NOVEMBER 12.

South Australia, no telegrams. Victoria: Cloudy at all of the stations; showery at Portland and Wilson's Promontory; wind fresh and between W.N.W. and N.N.W.; high sea at Wilson's Promontory, and rather rough at Cape Otway. New South Wales: Fine generally; some of the southern stations cloudy; light breeze at all the stations and between W. and N., with smooth sea on the E. coast. Queensland: No telegrams. 3 p.m. Observations:—Victoria: Barometers steady; Melbourne, W.N.W, 13, cloudy, temperature 66°; Portland, W., 48, squally, sea moderate, temperature 64°; Cape Otway, N.W., 48, gloomy, sea rough, temperature 64°; Wilson's Promontory, W., 28, squally, sea smooth, temperature 60° New South Wales: Wentworth, W., fine, cool, temperature 76°; Deniliquin, W., light, cloudy, temperature 73°; Albury, calm, cloudy, temperature 76°; Goulburn, W., fine, temperature 67°; Forbes, calm, cloudy, temperature 78° Eden, S.E., 20, fine, little easterly sea, temperature 61°; Moruya, W., 30, cloudy, sea smooth, temperature 77°; Cape George, W., strong, fine, temperature 68°, sea smooth; Sydney, N.N.W., 14, cloudy, sea smooth, temperature 76°; Newcastle, N.W., fresh, cloudy, temperature 78°, sea smooth; Port Macquarie, E., very light, fine, sea smooth; Clarence River, S.E., very light, fine, temperature 78°, sea smooth. State of Rivers:—Murrumbidgee, at Wagga, 8 feet 9 inches above summer level; at Hay, 18 feet above summer level; at Balranald, 14 feet 6 inches above summer level. Murray, at Albury, 8 feet 6 inches above summer level; at Euston, 10 feet 11 inches above summer level. Darling, at Wentworth, 19 feet 10 inches above summer level; at Pooncarie, 22 feet 5 inches above summer level; at Menindie, 28 feet 3 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

12 NOVR; 187[illegible]—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

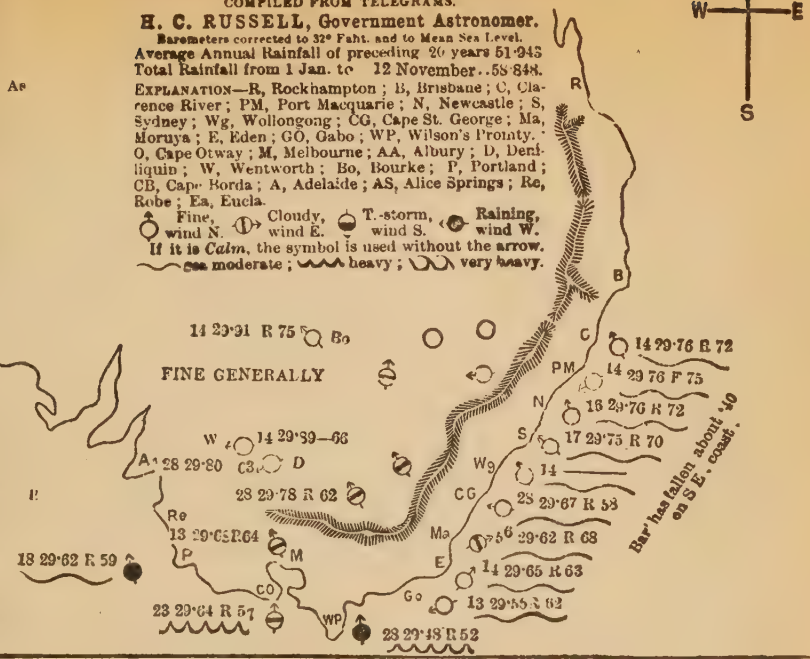
Total Rainfall from 1 Jan. to 12 November..58·848.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain	
Centerfi'ld	b	89	51	0	
Grafton..	b	82	74	0	
Inverell..	b	..	..	0	
Walgett..	.	.	..	..	
Bourke ..	b	85	59	0	
Narra'bri..	b	85	59	0	As
Armidale.	b	80	50	0	
Gunnedah	b	..	.	0	
Coonab'an	b	102	48	0	
P. Macqrie	b	78	65	0	
Murr'undi	b	84	55	0	
Cassilis ..	b	84	..	0	
Mus'brook	b	97	58	0	
Dubbo...	b	80	57	0	
Mudgee ..	c	78	52	0	
Maitland .	b	87	64	0	
Newcastle	b	88	58	0	
Orange ..	c	76	39	0	
Bathurst..	b	80	52	0	
MtVictoria	c	71	45	0	
Forbes...	b	78	58	0	
Bendemeer	b	..	..	..	
SYDNEY	b	84	60	0	
Wentw'th	..	72	52	..	
Young...	g	75	52	0·02	
Woll'gong	b	80	57	..	
Moss Vale	b	71	50	0	
Euston...	..	78	52	0·03	
Goulburn.	b	68	48	0·13	
Wagga. ...	b	69	54	0·05	
Cape Geo.	b	74	..	0	
Queanb'an	b	..	..	0	
Deniliquin	..	63	51	0·02	
Albury. ...	g	69	51	0·41	
Bodalla ...	b	81	44	..	
Cooma ...	g	61	42	0·02	
Eden.....	c	71	54	0·40	
Gabo Isld.	c	66	52	0·62	

METEOROLOGICAL REPORTS.—NOVEMBER 13.

South Australia: Cloudy, with light S.W. winds, smooth sea and rising barometers; rain at Adelaide 0·09, and Eucla 0·03 Victoria: Fine and clear at Portland and Melbourne, rain 0·01 and 0·03; cloudy at Cape Otway, rain 0·02; and showery at Wilson's Promontory, rain 0·05, sea moderate, barometers rising, wind light from W. New South Wales: Fine generally; cloudy down S. at Moruya, Eden, and Gabo, and inland at Wentworth and Albury; light land breezes on coast, with smooth sea and rising barometers; light rains down S. yesterday. See weather map. Queensland: Smooth easterly sea at Brisbane Heads; Brisbane, 29·96. fine, S.W. wind, temperature 82·. 3 p m. Observations.—Victoria: Melbourne, S., 13, cloudy, temperature 62·; Portland, W., 34, cloudy, sea smooth, temperature 60·; Cape Otway, W., 13, cloudy, sea moderate, temperature 63·; Wilson's Promontory, W., 28, cloudy, sea moderate, temperature 62·. New South Wales: Wentworth, S.W., dull, temperature 69·; Deniliquin, calm, fine, temperature 70·; Albury, S.W., dull, temperature 70·; Goulburn, W., fine, temperature 72·; Forbes, calm, fine, temperature 80·; Eden, S.E., 42, fine, sea light, temperature 66·; Cape George, N.E., 28, cloudy, sea smooth, temperature 74·; Sydney, E.N.E., 18, fine, sea smooth, temperature 75·; Newcastle, N.E., 14, fine, sea smooth, temperature 83·; Port Macquarie, N.E., 14, fine, sea smooth, temperature 75·; Clarence River, E., fine, sea smooth, temperature 76·. State of Rivers:—Murrumbidgee, at Wagga, 8 feet 4 inches above summer level; at Hay, 19 feet 5 inches above summer level; at Balranald, 14 feet 8 inches above summer level. Murray, at Albury, 7 feet 7 inches above summer level; at Euston, 19 feet 11 inches above summer level. Darling, at Wentworth, 19 feet 10 inches above summer level; at Pooncarie, 22 feet 6 inches about summer level; at Menindie, 28 feet 4 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

13 NOVR; 1870 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 13 November..58·854.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wthr	Max	Min	Rain
Tenterfi'ld	b	73	50	0
Grafton..	b	89	53	0
Inverell..	b	83	63	0
Walgett..	.	..	..	..
Bourke ..	b	89	59	0
Narra'ori..	b	85	53	0
Armidale.	b	78	53	0
Gunnedah	b	96	48	0
Coonab'an	b	100	47	0
P. Macqrie	b	77	59	0
Murr'undi	b	75	54	0
Cassilis ..	b	60	..	0
Mus'brook	b	95	54	0
Dubbo...	b	87	58	0
Mudgee ..	b	80	51	0
Maitland .	b	84	62	0
Newcastle	b	84	59	0
Orange ..	b	85	59	0
Bathurst..	b	69	45	0
MtVictoria	b	69	49	0
Forbes...	b	82	65	0
Bendemeer	b	80	52	0
SYDNEY.	b	80	61	0
Wentw'th	c	80	54	0
Young...	b	73	52	0·04
Woll'gong	b	78	61	0
Moss Vale	b	70	54	0
Euston...	b	77	54	0
Goulburn.	b	70	54	0
Wagga...	u	74	49	0
Cape Geo.	b	77	..	0
Queanb'an	b	70	56	0
Deniliquin	b	76	56	0·27
Albury...	c	72	54	0·19
Bodalla ..	b	79	52	0
Cooma...	c	67	45	0·02
Eden.....	c	68	55	0
Gabo Isld.	u	70	56	0

METEOROLOGICAL REPORTS.—NOVEMBER 14.

South Australia: Reports fine weather generally at southern and coast stations, but heavy rains and thunderstorms in tropics; barometers steady, sea smooth. Victoria:—Fine, with broken clouds, sea smooth; barometers rising; wind fresh from W.; rain this morning at Melbourne, 0·01; Portland, 0·02, and Wilson's Promontory, 0·06. New South Wales: Cloudy, raining on coast between Sydney and Moruya, and up N.W., at Murrurundi, Muswellbrook, and Tenterfield; fine down S.W., at Euston, Wagga, and Albury; barometers rising; light southerly winds and smooth sea on coast. (See weather map for rain measurements.) Queensland: Cooktown, dull and threatening, with light N.E. wind; sea smooth at Brisbane Heads. 3 p.m. Observations.—Victoria: Melbourne, S., 18, fine, temperature 60·; Portland, S.W., 23, sea smooth, temperature 63·: Cape Otway, W., 18, cloudy, moderate sea, temperature 57·; Wilson's Promontory, W., 23, cloudy, moderate sea, temperature 62·. New South Wales: Wentworth, S., fine, temperature 73·; Deniliquin, S.W., 14, fine, temperature 71·; Albury, W., fine, temperature 68·; Goulburn, W., fine, temperature 67·; Forbes, calm, fine, temperature 76·; Eden, S.W., 42·, fine, sea light, temperature 65·; Moruya, S.S.E., 56, fine, sea rough, temperature 61·; Cape George, S., 56, cloudy, sea light, temperature 61·; Sydney, S., 28, cloudy, sea smooth, temperature 62·; Newcastle, S., 14, light rain sea rising, temperature 68·; Port Macquarie, S., 42, sultry, sea smooth, temperature 73·. State of Rivers:—Murrumbidgee, at Hay, 18 feet 9 inches above summer level; at Balranald, 14 feet 9 inches above summer level. Murray, at Albury, 7 feet 3 inches above summer level; at Euston, 19 feet 4 inches above summer level. Darling, at Wentworth, 19 feet 10 inches above summer level; at Pooncarie, 22 feet 7 inches above summer level; at Menindie, 28 feet 4 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

14 NOVR; 187⁹ —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 14 November..59·304.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate; heavy; very heavy.

Stations	With R	Max	Min	Rain
Penterfi'ld	r	78	50	0
Grafton..	b	87	52	0
Inverell..	u	80	61	0
Walgett..	.	..	..	..
Bourke ..	c	94	60	0
Narrabri..	u	82	61	0
Armidale.	b	81	50	0
Gunnedah	..	..	..	..
Coonab'an	b	105	55	0·12
P. Macqrie	c	77	64	0·16
Murr'undi	r	74	55	0
Cassilis ..	r	90	..	0·21
Mus'brook	r	97	64	0·04
Dubbo...	c	83	58	0·21
Mudgee ..	u	80	39	0·41
Maitland .	c	86	65	0
Newcastle	u	89	61	0·06
Orange ..	u	79	43	0·57
Bathurst..	c	78	52	0·52
MtVictoria	c	78	47	0·31
Forbes...	c	83	59	0·11
Bondemeer	r	82	48	0
SYDNEY	r	81	59	0·45
Wentw'th	c	69	43	0
Young...	b	78	55	0·42
Woll'gong	r	79	58	0·27
Moss Vale	b	77	51	0·53
Euston...	b	77	56	0
Goulburn.	b	73	50	0·32
Wagga...	b	73	53	0
Cape Geo.	p	56	..	0·47
Queanb'an	b	72	51	0·82
Deniliquin	b	72	46	0
Albury...	b	78	50	0
Bodalla ..	p	78	56	0·59
Cooma...	c	71	44	0·45
Eden.....	c	72	53	0·11
Gabo Isld.	c	68	53	0·24

METEOROLOGICAL REPORTS.—NOVEMBER 15.

South Australia : Weather fine and warm ; barometers falling slowly ; light N.E. winds about Adelaide, but southerly at Eucla. Victoria : Fine, light clouds at Cape Otway and Wilson's Promontory ; sea slight and moderate ; barometers steady; wind light, and very variable; rain at Wilson's Promontory, 0·01. New South Wales : Fine clear weather generally, with light clouds at places, but no rain falling ; smooth sea on coast, with moderate S. winds and rising barometers. 3 p.m. Observations.—Victoria : Barometers falling slowly ; Portland, E.S.E., 13, fine, smooth sea, temperature 67· ; Cape Otway, E., 13, cloudy, smooth sea, temperature 64· ; Wilson's Promontory, W.S.W., 18, fine, smooth sea, temparature 58·. New South Wales : Wentworth, N.W., clear, warm, temperature 78· ; Deniliquin, calm, fine, temperature 74· ; Albury, N.W., 14, fine, temperature 70· ; Goulburn, W., fine, temperature 69· ; Forbes, calm, fine, temperature 83· ; Eden, no report ; Moruya, S.E., 20, fine, moderate sea, temperature 62· ; Cape George, S.S.E., 20, fine, little sea, temperature 63· ; Sydney, S., 14, fine, clear, temperature 64· ; Newcastle, S.E., 10, fine, sea smooth, temperature 69· ; Fort Macquarie, N.E., 20, fine, sea smooth, temperature 70· ; Clarence River, S.S.E., 14, fine, sea smooth. State of Rivers :—Murrumbidgee, at Wagge, 11 feet above summer evel ; at Hay, 14 feet 9 inches above sea level ; at Balranald, 15 feet 7 inches above summer level. Murray, at Albury, 7 feet above summer level ; at Euston, 19 feet 11 inches above summer level. Darling, at Wentworth, 19 feet 10 inches above summer level ; at Pooncarie, 22 feet 8 inches above summer level ; at Menindie, 28 feet 4 inches above summer level ; at Wilcannia, 33 feet 9 inches above summer level.

WEATHER MAP.

15 NOVd; 187⁹—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 15 November..59·413.

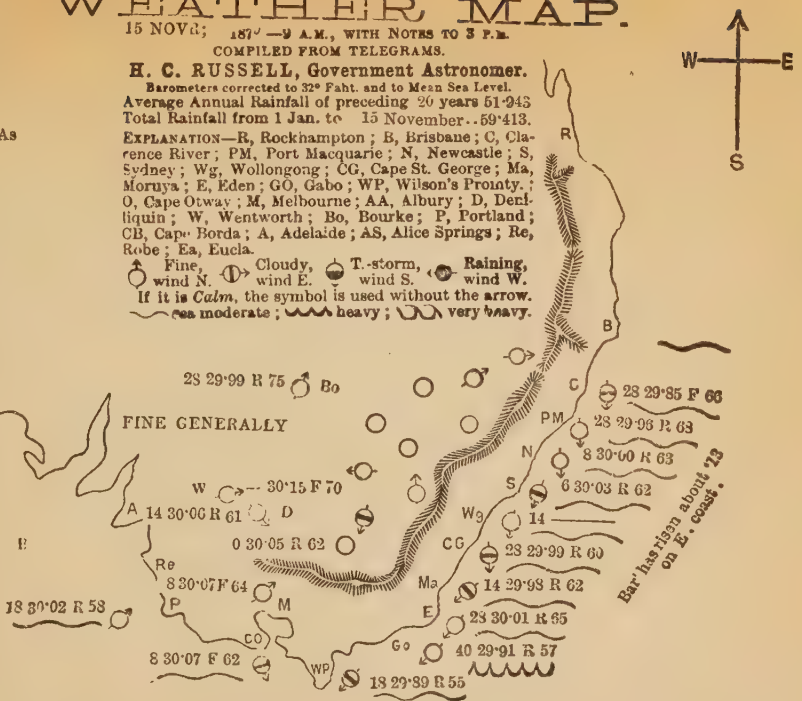
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	b	72	41	0·65
Grafton..	c	83	50	0·08
Inverell..	b	76	59	0
Walgett..	..	..	..	..
Bourke ..	b	80	55	0
Narra'ori..	b	84	58	0
Armidale.	b	82	49	0
Gunnedah	..	..	..	..
Coonab'an	b	91	49	0·03
P. Macqrie	b	74	58	0
Murr'undi	u	73	54	0
Cassilis ..	u	70	..	0
Mus'brook	b	86	55	0·15
Dubbo....	b	74	54	0
Mudgee ..	b	78	55	0
Maitland .	c	73	61	0·10
Newcastle	b	69	55	0·22
Orange ..	b	75	34	0
Bathurst..	b	68	47	0
MtVictoria	c	66	41	0
Forbes...	b	79	58	0
Bendemeer	c	73	52	0
SYDNEY	b	64	56	0·11
Wentw'th	b	78	50	0
Young...	b	71	48	0
Woll'gong	b	64	54	0
Moss Vale	b	62	49	0
Euston...	b	80	54	0
Goulburn.	b	78	44	0
Wagga...	b	76	40	0
Cape Geo.	b	61	..	0
Queanb'an	b	85	50	0
Deniliquin	b	72	48	0
Albury...	b	79	40	0
Bodalla ..	b	69	46	0·01
Cooma...	c	66	37	0·15
Eden.....	b	73	51	0
Gabo Isld.	b	60	51	0



METEOROLOGICAL REPORTS.—NOVEMBER 17.

South Australia: Fine, clear, and warm, sea smooth, barometers rising, light southerly wind on S. coast, cloudy inland at Alice Springs; rain at Adelaide 0·03. Victoria: Cloudy and squally generally, strong S.W. winds on coast, barometers rising in W. of colony falling in the E. at Wilson's Promontory, &c., sea mooth and moderate; rain at Melbourne 0·01, Cape Otway 0·15, Portland, 0·21, and Wilson's Promontory 0·02. New South Wales: Fine inland generally, cloudy up N. and all down coast, smooth sea, falling barometers, and light N. and N.E. winds on coast, no rain. 3 p.m. Observations.—Victoria: Melbourne, barometers rising, S., 18, fine, clear, temperature 62·; Portland, S.S.W., 28, fine, sea smooth, temperature 57·; Cape Otway, S.W., 23, cloudy, sea moderate, temperature 55·; Wilson's Promontory, W.S.W., 56, cloudy, high sea. New South Wales: Deniliquin, S.W., strong, fine, temperature 76·; Albury, S.W., strong, fine, temperature 74· Forbes, N.W., fine, temperature 79·; Eden, S.W., 56, fine, light sea, temperature 60·; Cape George, N., 28, fine, light sea, temperature 68·; Sydney, N., 8, fine, sea smooth, temperature 82·; Port Macquarie, N.E., 14, dull, moderate sea, temperature 73·; Clarence River, N.E., 28, fine, sea smooth, temperature 75·. State of Rivers:—Murrumbidgee, at Hay, 15 feet 6 inches above summer level; at Balranald, 10 feet 7 inches above summer level. Murray, at Albury, 9 feet 3 inches above summer level; at Euston, 20 feet above summer level. Darling, at Wentworth, 19 feet 10 inches above summer level; at Pooncarie, 22 feet 10 inchees above summer level; at Menindie, 28 feet 5 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

17 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 17 November..59·413.

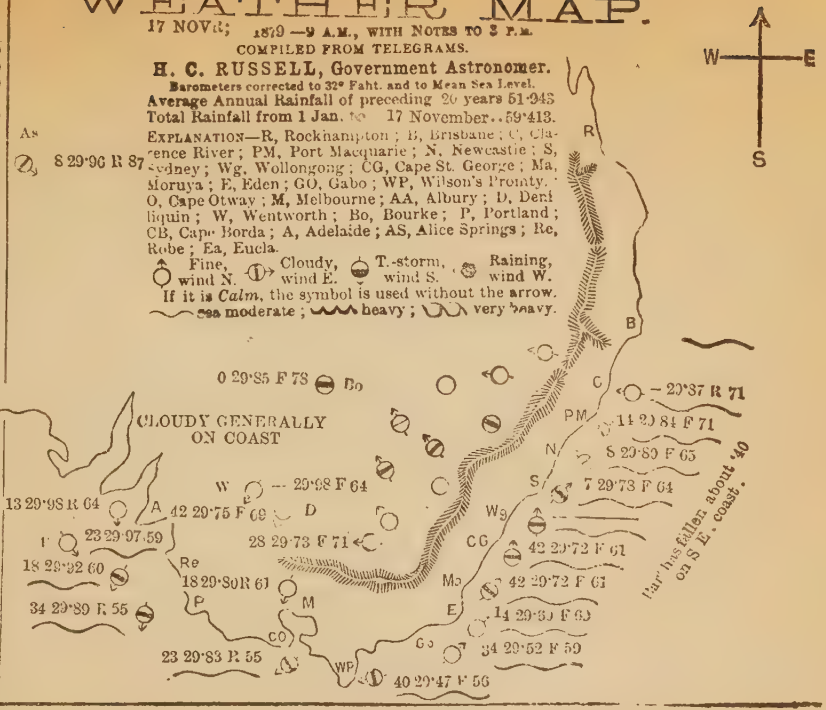
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'ly'r	Max	Min	Rain
Tenterfi'ld	b	81	53	0
Grafton..	b	83	52	0
Inverell..	b	77	55	0
Walgett..	.	..	..	..
Bourke ..	c	96	66	0
Narra'bri..	b	83	61	0
Armidale.	b	78	47	0
Gunnedah	b	91	52	0
Coonab'an	u	114	49	0
P. Macqrie	b	73	36	0
Murr'undi	u	76	55	0
Cassilis ..	b	86	..	0
Mus'brook	u	102	55	0
Dubbo...	u	82	66	0
Mudgee ..	u	84	56	0
Maitland .	u	80	60	0
Newcastle	u	72	52	0
Orange ..	u	77	48	0
Bathurst..	b	75	45	0
Mt Victoria	b	79	45	0
Forbes...	u	76	60	0
Bendemeer.	b	83	43	0
SYDNEY	u	70	56	0
Wentw'th	b	89	58	0
Young...	u	76	58	0
Woll'gong	c	73	53	0
Moss Vale	b	73	54	0
Euston...	c	74	55	0
Goulburn.	b	78	71	0
Wagga ..	..	..	..	..
Cape Geo.	c	62	..	0
Queanb'an	b	81	47	0
Deniliquin	b	86	51	0
Albury...	b	85	56	0
Bodalla ..	b	77	55	0
Cooma...	b	80	54	0
Eden....	b	68	56	0
Gabo Isld.	b	66	54	0



METEOROLOGICAL REPORTS.—November 18.

South Australia: Cloudy and dull generally. No rain fallen. Fine inland. At Alice Springs, smooth sea with falling barometers and fresh easterly winds on coast. Victoria: Cloudy all round coast, with light S.E. and S.W. winds, smooth sea and falling barometers; no rain. New South Wales: Cloudy generally; clouds light, and no rain fallen; fresh S. winds, with smooth sea and rising barometers on coast; fine at a few of the inland north-western stations, at Tenterfield, Inverell, Armidale, and Bendemeer. Queensland: Smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers steady. Melbourne, S.S.W., 13, cloudy, temperature 61°; Cape Otway, E.S.E., 13, cloudy, smooth sea, temperature 61°; Portland, S.E., 23, cloudy, smooth sea; Wilson's Promontory, S., 13, cloudy, smooth sea. New South Wales: Wentworth, E., dull, temperature 68°; Denilquin, S., 14, dull, temperature 70°; Albury, W., moderate, cloudy, temperature 70°; Goulburn, calm, dull, temperature 67°; Forbes, calm, dull, temperature 75°; Eden, E., 14, fine, sea light, temperature 62°; Moruya, E.N.E., 20, cloudy, sea moderate, temperature 66°; Cape George, S.E., 14, cloudy, sea smooth, temperature 64°; Sydney, E.S.E., 8, dull, sea smooth, temperature 62°; Newcastle, S.E., light, dull, sea smooth, temperature 72°; Port Macquarie, S.E., 14, dull, sea smooth, temperature 70°; Clarence River, S., fine, sea smooth, temperature 78°. State of Rivers:—Murrumbidgee, at Wagga, 10 feet above summer level; at Hay, 19 feet 2 inches above summer level; at Balranald, 20 feet above summer level. Murray, at Albury, 8 feet 4 inches above summer level; at Euston, 15 feet 7 inches above summer level. Darling, at Wentworth, 19 feet 10 inches above summer level; at Pooncarie, 22 feet 9 inches above summer level; at Menindie, 28 feet 5 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

18 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 18 November..59·413.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wth.	Max	Min	Rain
Tenterfi'ld	b	80	59	0
Grafton..	b	91	53	0
Inverell..	b	83	55	0
Walgett..	..	..	..	..
Bourke ..	c	100	72	0
Narrabri..	b	92	63	0
Armidale.	b	81	49	0
Gunnedah	..	..	..	..
Coonab'an	b	106	51	0
P. Macqrie	b	75	63	0
Murr'undi	u	76	60	0
Cassilis ..	b	97	..	0
Mus'brook	u	97	59	0
Dubbo...	u	78	48	0
Mudgee ..	u	99	58	0
Maitland .	u	80	65	0
Newcastle	c	80	59	0
Orange ..	b	77	39	0
Bathurst..	b	79	48	0
MtVictoria	u	76	45	0
Forbes...	b	79	59	0
Bendemeer	b	84	55	0
SYDNEY	u	84	57	0
Wentw'th	u	79	57	0
Young...	u	82	54	0
Woll'gong	c	84	56	0
Moss Vale	u	80	47	0
Euston...	u	66	56	0
Goulburn.	b	82	42	0
Wagga ..	b	89	46	0
Cape Geo.	c	66	..	0
Queanb'an	u	86	56	0
Deniliquin	u	75	50	0
Albury...	u	85	44	0
Bodalla ..	b	87	42	0
Cooma...	b	80	40	0
Eden....	b	73	52	0
Gabo Isld.	u	69	40	0

METEOROLOGICAL REPORTS.—NOVEMBER 19.

South Australia: No reports. Victoria: Cloudy all round coast; showery at Melbourne, measured 0·16, sea smooth and moderate, wind light and variable, barometers steady. New South Wales: Light rains falling generally all over the colony for most important, none of which exceed half an inch, see list in weather map), light variable wind, smooth sea, and falling barometers on coast. Queensland: Brisbane, cloudy and overcast, barometers rising, rain 1·30, sea smooth. 3 p.m. Observations.—Victoria: Melbourne, W.S.W., 13, showery, temperature 64°; Portland, S., 28, fine, sea smooth, temperature 59°; Cape Otway, S., 13, cloudy, sea smooth, temperature 59°; Wilson's Promontory, E., 23, light rain, moderate sea, temperature 57.; New South Wales: Goulburn, calm, cloudy, temperature 65°; Forbes, calm, like storm, temperature 73°; Eden, N., 28, raining, sea light, temperature 58°; Moruya, W., 14, raining, sea rising, temperature 59°; Newcastle, S.S.E., 8, cloudy, sea smooth, temperature 72°; Port Macquarie, N.E., 42, raining, sea moderate, temperature 72°: Clarence River, E.N.E., 28, sea smooth, temperature 74°; Sydney, E., 8, cloudy, sea smooth, temperature 65°, barometer remarkably unsteady after 1 p.m., and down to 29·335, with thunder, lightning, and heavy rain. State of Rivers:—Murrumbidgee, at Hay, 18 feet 10 inches above summer level; at Balranald, 15 feet 7 inches above summer level. Murray, at Albury, 7 feet 9 inches above summer level; at Euston, 20 feet above summer level. Darling, at Wentworth, 19 feet 10 inches above summer level; at Pooncarie, 22 feet 10 inches above summer level; at Menindie, 28 feet 6 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

19 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

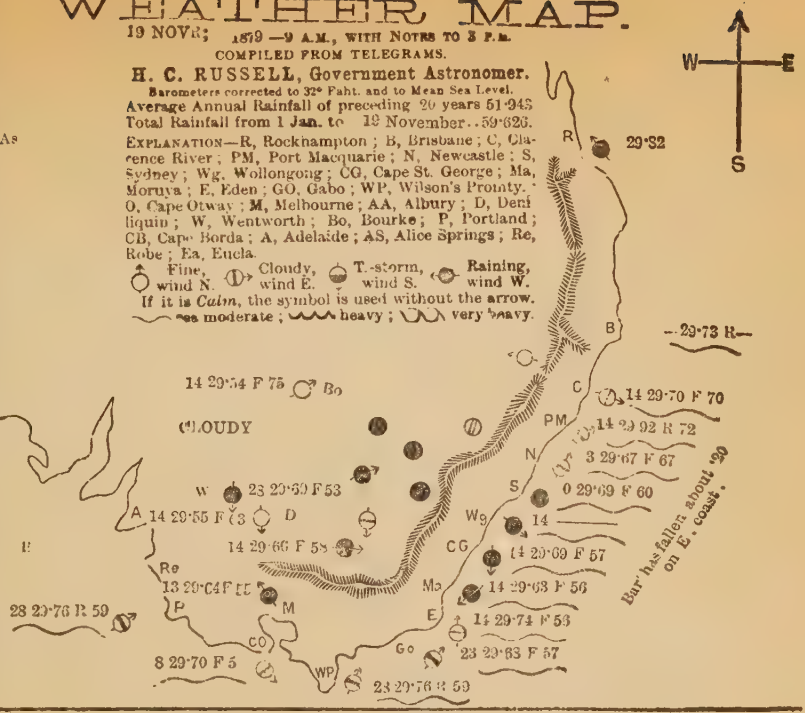
Total Rainfall from 1 Jan. to 19 November..59·626.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Seas moderate; heavy; very heavy.



Stations			Max	Min	Rain
Tenterfi'ld	b		8[illegible]	59	0·10
Grafton..	u		83	53	0·02
Inverell..	..		..	..	..
Walgett..	.		..	..	..
Bourke ..	b		82	65	0·25
Narra'ri..	..	As	.	.	..
Armidale.	b		78	46	0
Gunnedah	r		89	52	0·34
Coona'ban	p		89	50	0·08
P. Macqrie	c		73	63	0
Murr'umdi	r		79	69	0
Cassilis ..	t		72	..	0·05
Mus'brook	p		89	57	0·03
Dubbo...	u		79	62	0
Mudgee ..	u		76	53	0·07
Maitland .	u		78	62	0·06
Newcastle	u		69	61	0·11
Orange ..	r		74	44	0·35
Bathurst..	r		66	52	0·31
Mt Victoria	r		70	47	0·38
Forbes...	u		78	57	0·28
Bendemeer	d		70	44	0
SYDNEY	d		6[illegible]	58	0·21
Wentw'th	r		69	50	0·19
Young...	r		82	54	0·28
Woll'gong	p		66	57	0·14
Moss Vale	r		61	50	0·14
Euston...	r		66	55	0·04
Goulburn.	r		65	0	0·07
Wagga ..	r		75	56	0·28
Cape Geo.	r		64	..	0·05
Queanb'an	r		72	53	0·02
Deniliquin	u		69	56	0
Albury...	r		79	52	0·04
Bodalla ..	r		74	48	0·02
Cooma...	c		74	47	0
Eden.....	u		67	53	0
Gabo Isld.	u		63	54	0

METEOROLOGICAL REPORTS.—NOVEMBER 20.

South Australia: Fine weather with broken clouds, light variable wind, smooth sea, and steady barometers; rain at Adelaide 0·01. Victoria: Fine, with broken clouds; squally with clear weather at Melbourne; rough sea at Wilson's; moderate on S.W. coast; rain at Melbourne 0·16, Cape Otway 0·05, Portland 0·01, and Wilson's Promontory 0·87. New South Wales: Weather clear up N., with variable westerly winds; still cloudy with strong S.W. winds on coast; showery and squally with rough sea down S. at Twofold Bay, bars low and falling. (See weather map for rain records.) Queensland: Smooth sea at Brisbane Heads; Rockhampton, barometer 29·79, S.W.; Cooktown, 29·93, temperature 68°, calm, threatening rain. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 13, fine, temperature 61°; Portland, S.W., 28, fine, smooth sea, temperature 61°; Cape Otway, W., 13, cloudy, moderate sea, temperature 58; Wilson's Promontory, W.S.W., 34, cloudy, rough sea, temperature 57°, New South Wales: Wentworth, S.W., fine, temperature 71°, Deniliquin, S.W., fine, temperature 68°; Goulburn, S.W., 20, dull, temperature 63°; Forbes, S.W., fine, temperature 63°; Eden, S.W., 56, dull, heavy sea, temperature 56°; Moruya, S.W., 56, squally, heavy sea, temperature 61°; Cape George, S.S.W., 56, cloudy, moderate sea, temperatnre 59°; Sydney, S.W., 20, dull, slight sea, temperature 65°; Newcastle, W.S.W.; 20, dull, sea rising, temperature 69°; Port Macquarie, W.S.W., 56 fine, sea moderate, temperature, 71° State of Rivers:—Murrumbidgee, at Wagga Wagga, 10 feet above summer level; at Hay, 13 feet above summer level; at Balranald, 15 feet 8 inches above summer level. Murray, at Albury, 7 feet 3 inches above summer level; at Euston, 20 feet feet 2 inches above summer level. Darling at Wentworth, 19 feet 11 inches above summer level; at Pooncarie, 22 feet 11 inches above summer level; at Menindie, 28 feet 6 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

20 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 20 November..61·366.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Tenterfi'ld	..	..	..	..
Grafton..	b	80	52	0·85
Inverell..	b	75	55	1·30
Walgett..	..	..	..	..
Bourke ..	b	92	59	0
Narrabri..	b	74	57	1·09
Armidale..	b	79	48	0
Gunnedah	b	76	52	0·70
Coonab'an	b	81	48	0·69
P. Macqrie	..	..	..	..
Murr'undi	b	72	59	1·42
Cassilis ..	b	81	..	0·25
Mus'brook	b	87	53	0·25
Dubbo...	b	82	55	0·75
Mudgee ..	b	77	51	0
Maitland .	b	77	62	0·55
Newcastle	u	64	61	0·43
Orange ..	u	62	34	1·25
Bathurst..	u	67	46	1·10
Mt Victoria	..	..	..	..
Forbes...	b	75	57	0·49
Bendemeer	b	64	41	1·02
Sydney	u	71	56	1·74
Wentw'th	b	63	49	0·17
Young...	b	67	50	0
Woll'gong	..	..	..	..
Moss Vale	c	61	48	0·53
Euston...	b	68	48	0
Goulburn.	b	65	46	0·60
Wagga...	b	65	39	0·25
Cape Geo.	c	66	..	0·12
Queanb'an	u	63	50	0·87
Deniliquin	b	69	44	0·38
Albury...	b	62	47	0·52
Bodalla ..	r	62	52	0·92
Cooma...	p	57	41	1·45
Eden.....	r	59	42	1·26
Gabo Isld.	..	..	..	..

METEOROLOGICAL REPORTS.—NOVEMBER 21.

South Australia: Weather fine and warm, with light detached clouds; barometer falling at all stations east of Eucla; wind fresh and variable, sea moderate, no rain. Victoria: Cloudy on coast, with falling barometers; smooth sea and fresh northerly winds; no rain measured. New South Wales: Fine and clear at all stations; barometers rising rapidly on coast, with fresh southerly winds; barometers falling in S.W. of colony; fine and calm generally inland. Queensland: Smooth sea at Cape Moreton; Rockhampton, S., fine, clear. 3 p.m. Observations.—Victoria: Melbourne, N.N.E., 8, threatening, temperature 68·; Portland, W.S.W., 34, fine, sea smooth, temperature 74·; Cape Otway, W.N.W., 23, showery, sea moderate, temperature 57·; Wilson's Promontory, N., 13, light rain, sea smooth, temperature 62·. New South Wales: Wentworth, N., strong wind, like storm, temperature 78·; Albury, S.W., 10, fine, clear, temperature 69·; Goulbourn, W., fine, temperature 67·; Forbes, calm, fine, temperature 71·; Eden, E.N.E., 14, temperature 62·; Cape George, S.E., 14, sea going down, temperature 68·; Sydney, very fine, clear, barometer steady, sea moderate; Newcastle, S.E., 10, fine, sea moderate, temperature 70·; Port Macquarie, S., 30, fine, sea moderate, temperature 71·; Clarence River, S.E., 14, fine, heavy sea, temperature 74·. State of Rivers:—Murrumbidgee, at Wagga Wagga, 8 feet 11 inches above summer level; at Hay, 13 feet 2 inches above summer level; at Balranald, 15 feet baove summer level. Murray, at Albury, 7 feet above summer level; at Euston, 20 feet 7 inches above summer level. Darling at Wentworth, 19 feet 11 inches above summer level; at Pooncarie, 23 feet 3 inches above summer level; at Menindie, 28 feet 7 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

21 NOVt; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·245

Total Rainfall from 1 Jan. to 21 November..61·366.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Ro, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wthr	Max	Min	Rain
Tenterfield	b	68	45	0
Grafton..	b	81	45	0
Inverell..	b	65	46	0
Walgett..	..	..	..	..
Bourke ..	b	81	54	0
Narrabri..	b	75	52	0
Armidale.	b	74	45	0
Gunnedah	b	77	44	0
Coonab'an	b	89	41	0
P. Macqrie	b	77	58	0
Murr'undi	b	68	52	0
Cassilis ..	b	80	..	0
Mus'brook	b	82	43	0
Dubbo...	b	69	52	0
Mudgee ..	b	68	4[illegible]	0
Maitland .	b	73	55	0
Newcastle	b	69	54	9
Orange ..	b	75	33	0
Bathurst..	b	61	39	0
MtVictoria	o	6[illegible]	37	0
Forbes...	b	65	55	0
Bendemeer	b	6[illegible]	54	0
SYDNEY	b	6[illegible]	3	0
Wentw'th	b	75	51	0
Young...	b	61	45	9
Woll'gong	b	62	53	0
Moss Vale	b	59	40	0·04
Euston...	b	76	45	0
Goulburn.	b	64	35	0
Wagga...	b	72	61	0
Cape Geo.	b	52	..	0
Queanb'an	b	77	41	0
Deniliquin	b	70	45	0
Albury...	b	71	41	0
Bodalla ..	b	73	38	0·01
Cooma...	b	56	34	0
Eden.....	b	70	51	0·03
Gabo Isld.	..	..	..	..

METEOROLOGICAL REPORTS.—NOVEMBER 27.

South Australia: Cloudy on S. coast with fresh breeze from sea, rising barometers and rough sea; fine inland, heavy rains with thunderstorms on N. coast; rain at Port Darwin 1·01. Victoria: Showery all along coast, with moderate sea and strong westerly winds, barometers rising; rain at Melbourne, 0·18; Cape Otway, 0·23; Portland, 0·20; Wilson's Promontory, 0·58. New South Wales: Cloudy on coast with smooth sea, falling barometers and light variable winds; fine and calm inland. Queensland: Cooktown, 29·94, 89° N., 8, sultry but clear; Rockhampton, 29·99, W. and N.W., fine. 3 p.m. Observations:—Victoria: Barometers steady. Melbourne, no report; Portland, W., 48, squally with rain, temperature 59°, smooth sea; Cape Otway, W., 28, cloudy, misty, moderate sea, temperature 61°; Wilson's Promontory, W., 23, squally with rain, temperature 54°; moderate sea. New South Wales.—Wentworth, S.W., fine, temperature 77°; Goulburn, W., fine, temperature 69°; Forbes, calm, fine, temperature 77°; Eden, SW, 14, cloudy, little east sea, temperature 58°; Moruya, S.E., 30, cloudy, sea moderate, temperature 64°; Cape George, S.E., 20, fine, sea smooth, temperature 65°; Sydney, S., 14, fine, temperature 68°; Newcastle, W.N.W., 30, cloudy, sea smooth, temperature 83°; Port Macquarie, N.E., 20, fine, sea smooth, temperature 75°. State of Rivers:—Murrumbidgee, at Hay, 13 feet above summer level; at Balranald, 15 feet above summer level. Murray, at Albury, 7 feet 2 inches above summer level; at Euston, 20 feet 9 inches above summer level. Darling at Wentworth, 19 feet above summer level; at Pooncarie, 13 feet above summer level; at Menindie, 28 feet 3 inches above summer level; at Wilcannia, 33 feet 10 inches above summer level.

WEATHER MAP.

22 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 22 November..61·366.

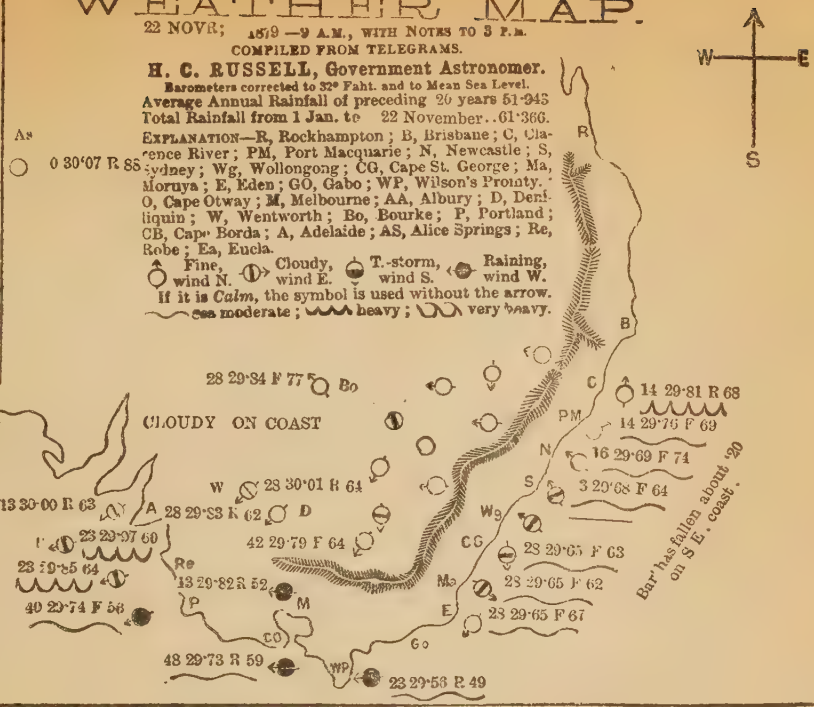
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Wthr	Max	Min	Rain
Tenterfi'ld	b	72	53	0
Grafton..	b	85	42	0
Inverell..	b	71	45	0
Walgett..	..	..	..	..
Bourke ..	b	89	64	0
Narrabri..	b	80	53	0
Armidale.	b	73	47	0
Gunnedah	..	..	..	..
Coonab'an	b	..	43	0
P. Macqrie	b	72	52	0
Murr'undi	u	78	55	0
Cassilis ..	u	84	..	0
Mus'brook	b	97	54	0
Dubbo...	b	76	57	0
Mudgee ..	b	79	51	0
Maitland .	c	78	55	0
Newcastle	b	76	53	0
Orange ..	u	71	40	0
Bathurst..	b	74	46	0
MtVictoria	b	73	48	0
Forbes...	b	71	58	0
Bendemeer	b	76	57	0
SYDNEY	u	68	56	0
Wentw'th	b	84	51	0
Young...	c	73	56	0
Woll'gong	b	69	59	0
Moss Vale	b	72	52	0
Euston...	b	77	53	0
Goulburn.	b	74	53	0
Wagga...	b	78	48	0
Cape Geo.	c	68	..	0
Queanb'an	b	75	54	0
Deniliquin	b	83	53	0
Albury...	b	83	52	0·05
Bodalla ..	b	76	46	0
Cooma...	c	76	46	0
Eden.....	b	71	56	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—NOVEMBER 24.

South Australia: Fine generally, with strong westerly winds, smooth sea, broken clouds and rising barometers; rain at Adelaide, 0·08; Eucla, 0·03; and Robe, 0·21. Victoria: Fine in western part of colony, and cloudy in centre and east, sea smooth, barometers falling, wind fresh from N.E.; rain Cape Otway, 0·13; and Portland, 0·34. New South Wales: Fine generally, cloudy on coast, with rising barometers, light variable breezes, and smooth sea, fine and calm inland, no rainfall. Queensland: Brisbane, fine, with light N.E. breeze, rising barometers, and smooth sea. 3 p.m. Observations.—Victoria: Portland, W., 48, squally, sea smooth, temperature 60.; Cape Otway, N.W., 8, light rain, sea slight, temperature 55·; Wilson's Promontory, N.N.E., 23, light rain, sea slight, temperature 55·. New South Wales: Wentworth, S.W. and stormy; Deniliquin, N.N.W., gloomy, temperature 73·; Albury, calm, cloudy, temperature 67·; Goulburn, calm, cloudy, temperature 69·; Forbes, calm, cloudy, temperature 69·; Eden, N.E., 14, fine, light sea, temperature 63·; Moruya, N.E., 42, dull, sea moderate, temperature 63·; Cape George, N.E., 28, cloudy, sea smooth, temperature 65 ; Sydney, N.E., 14, dull, sea smooth, temperature 67·; Newcastle, E.N.E., fine, sea smooth, temperature 75·; Port Macquarie, N.E., 42, fine, sea smooth, temperature 72·; Clarence River, N.E., 28, fine, sea smooth, temperature 75· State of Rivers:—Murrumbidgee, at Hay, 12 feet 6 inches above summer level; at Balranald, 15 feet above summer level. Murray, at Albury, 6 feet 3 inches above summer level; at Euston, 20 feet 10 inches above summer level. Darling at Pooncarie, 22 feet 1 inch above summer level; at Menindie, 28 feet 9 inches above summer level; at Wilcannia, 33 feet 9 inches above summer level.

WEATHER MAP.

23 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 26 years 51·943

Total Rainfall from 1 Jan. to 23 November..61·366.

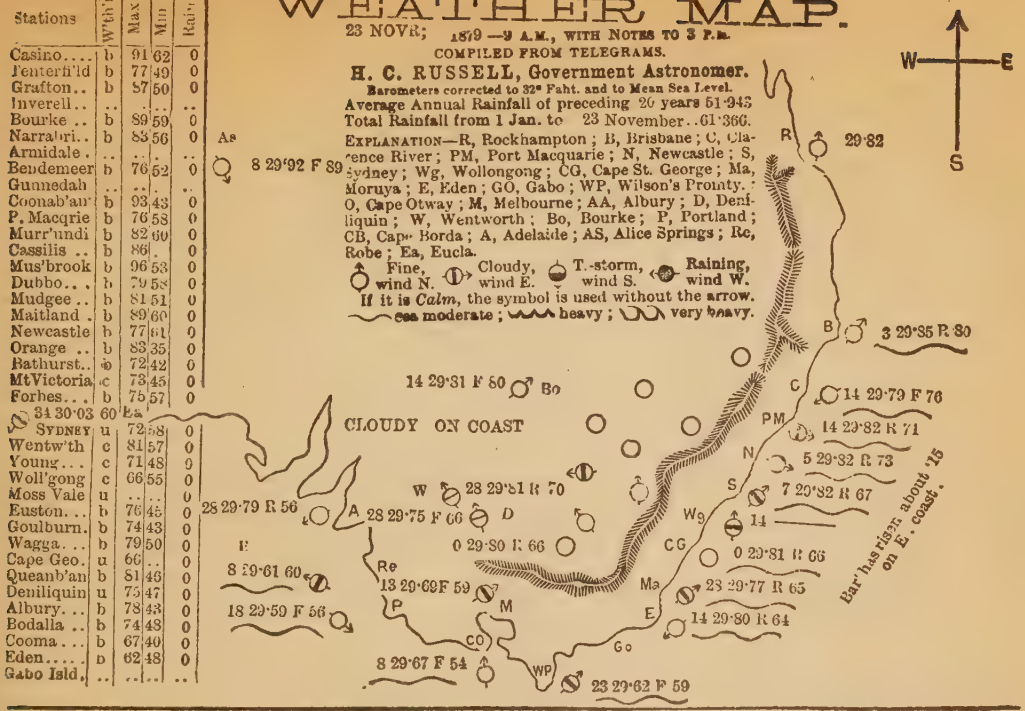
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Prointy. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Rc, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	b	91	62	0
Tenterfi'ld	b	77	49	0
Grafton..	b	87	50	0
Inverell..	..	..	..	..
Bourke ..	b	89	59	0
Narrabri..	b	83	56	0
Armidale .	..	..	..	..
Bendemeer	b	76	52	0
Gunnedah	..	..	..	..
Coonab'ar	b	93	43	0
P. Macqrie	b	76	58	0
Murr'undi	b	82	60	0
Cassilis ..	b	86	..	0
Mus'brook	b	96	53	0
Dubbo.. .	b	79	58	0
Mudgee ..	b	81	51	0
Maitland .	b	89	60	0
Newcastle	b	77	61	0
Orange ..	b	83	35	0
Bathurst..	b	72	42	0
MtVictoria	c	73	45	0
Forbes...	b	75	57	0
SYDNEY	u	72	58	0
Wentw'th	c	81	57	0
Young...	c	71	48	0
Woll'gong	c	66	55	0
Moss Vale	u	..	..	0
Euston. ..	b	76	45	0
Goulburn.	b	74	43	0
Wagga. ..	b	79	50	0
Cape Geo.	u	66	..	0
Queanb'an	b	81	46	0
Deniliquin	u	73	47	0
Albury. ..	b	78	43	0
Bodalla ..	b	74	48	0
Cooma . ..	b	67	40	0
Eden.... .	b	62	48	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS.—NOVEMBER 25.

South Australia: Cloudy, with rising barometers, strong squally south-westerly weather, with rough sea on S. coast, rain at Robe, 0·08. **Victoria:** Cloudy and squally, showery on coast with strong westerly winds; falling barometers and moderate sea; rain at Melbourne, 0·51; Cape Otway, 1·01; Portland, 0·26; and Wilson's Promontory, 0·53. **New South Wales:** Light clouds on coast north of Sydney, and inland to S.W. near Wentworth and Euston; fine clear weather at other places. Smooth sea, rising barometers, and light variable winds on coast; light rains down south yesterday (see list in map). **Queensland:** Fine and clear, with light north wind at Cooktown; sea smooth at Brisbane heads. 3 p.m. Observations.—**Victoria:** Melbourne, S.W., 8, showery, temperature 60°; Portland, S.W., 40, squally, raining, slight sea, temperature 57°; Cape Otway, W., 45, showery, rather rough sea, temperature 56°. **New South Wales:** Deniliquin, S.W., 42, dull, temperature 69°; Albury, W., cloudy, temperature 64°; Goulburn, S.W., sultry, temperature 67°; Forbes, calm, cloudy, temperature 75°; Eden, S.W., 14, dull, sea light, temperature 58°; Moruya, N.E., 42, fine, sea moderate, temperature 65°; Cape George, W., 56, cloudy, sea smooth, temperature 67°; Sydney, S.S.E., 8, cloudy, temperature 70°; Port Macquarie, W., 55, hazy, sea smooth, temperature 76°; Clarence River, N.W., 28, fine, sea smooth, temperature 81°. **State of Rivers:**—Murrumbidgee, at Hay, 14 feet above summer level; at Balranald, 14 feet 11 inches above summer level. Murray, at Albury, 6 feet 6 inches above summer level; at Euston, 21 feet 3 inches above summer level. Darling at Wentworth, 19 feet 1 inch above summer level; at Pooncarie, 23 feet above summer level; at Menindie, 28 feet 10 inches above summer level; at Wilcannia, 33 feet 9 inches above summer level.

WEATHER MAP.

25 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 25 November..61·367.

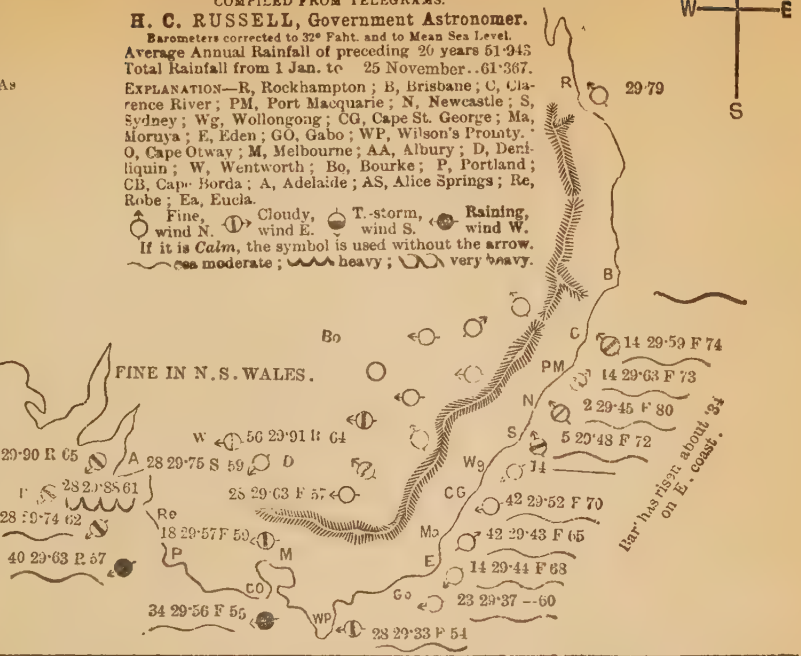
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain	
Casino....	b	87	62	0	
Denterfi'ld	b	78	50	0	
Grafton..	b	85	50	0	
Inverell..	b	80	54	0	
Bourke ..	..	..	..	..	
Narrabri..	b	87	67	0	As
Armidale.	b	74	50	0	
Bendemeer	c	82	77	0	
Gunnedah	..	..	..	..	
Coonab'an	b	..	50	0	
P. Macqrie	c	77	66	0	
Murr'undi	b	77	60	0	
Cassilis ..	b	82	.	0	
Mus'brook	b	92	60	0	
Dubbo...	b	80	64	0	
Mudgee ..	b	80	56	0	
Maitland .	b	82	63	0	
Newcastle	b	81	61	0	
Orange ..	b	86	43	0	
Bathurst..	b	73	55	0	
MtVictoria	b	75	52	0	
Forbes...	b	73	57	0·12	
○ 30·02 72 Ka					
SYDNEY	b	72	60	0	
Wentw'th	d	89	52	0	
Young...	u	74	56	0	
Woll'gong	b	72	59	0	
Moss Vale	..	..	..	..	
Euston...	u	71	50	0	
Goulburn.	b	76	43	0	
Wagga...	b	78	42	0	
Cape Geo.	b	71	..	0	
Queanb'an	b	81	51	0	
Deniliquin	b	82	68	0·03	
Albury...	b	77	46	0·25	
Bodalla ..	b	74	49	0·05	
Cooma...	u	74	44	0·25	
Eden.....	b	71	54	0·32	
Gabo Isld.	b	70	55	0·35	



METEOROLOGICAL REPORTS.—NOVEMBER 28

South Australia: Strong S.W. winds and cloudy weather on the coast, very light rains yesterday; barometer steady, showery during night. Victoria: Cloudy, with strong westerly, squally weather, showery at Cape Otway; barometer rising at Portland, but falling E. of there; rain at Melbourne, 0·30; Cape Otway, 0·11; Wilson's Promontory, 0·04; and Portland, 0·16. New South Wales: Fine generally, light clouds, S.W. of Sydney; light W. (land) breeze on coast, with rising barometers, and smooth sea; light rain recorded at Eden and Gabo Island. (See list in weather map.) Queensland: Smooth sea at Brisbane Heads; Cooktown, 29 93. 89°. calm, cloudy. 3 p.m. Observations.—Victoria: Barometer steady. Melbourne, W.S.W., 18, cloudy, squally, temperature 61°; Portland, W.S.W., 40, squally, with rain, sea smooth, temperature 59°; Cape Otway, W.N.W., 48, cloudy, sea rough, temperature 60°; Wilson's Promontory, W., 48, squally, sea rough, temperature 56°; New South Wales: Wentworth, S.W. strong, fine, temperature 76°; Deniliquin, S.W. strong, dull, temperature 74°; Albury, W. strong, raining, temperature 72.; Goulburn, S W., fine, temperature 65°; Forbes, calm, cloudy, temperature 76°; Eden, E., 14, fine, sea smooth, temperature 63°; Moruya, N.W., 28, fine, sea moderate, temperature 61°; Cape George, W., 42, fine, sea smooth, temperature 66°; Sydney, N.W., 8, dull, sea smooth, temperature 67°; Newcastle, N.W. fresh, dull, sea smooth, temperature 77°; Port Macquarie, E., 28, fine, sea smooth, temperature 74°; Clarence River, N.E., 28, fine, sea smooth, temperature 76°. State of Rivers:—Murrumbidgee, at Hay, 14 feet 7 inches above summer level; at Balranald, 14 feet 8 inches above summer level. Murray, at Albury, 6 feet 10 inches above summer level; at Euston, 21 feet 7 inches above summer level. Darling at Wentworth, 18 feet 2 inch above summer level; at Pooncarie, 22 feet 2 inches above summer level; at Menindie, 28 feet 10 inches above summer level; at Wilcannia, 33 feet 9 inches above summer level.

WEATHER MAP.

26 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 26 November..61·367.

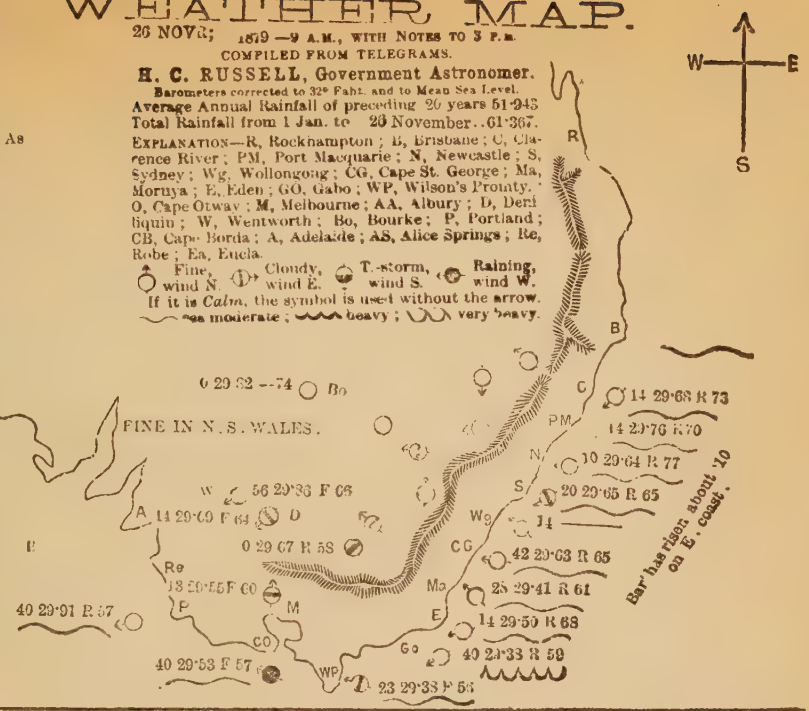
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promnty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	Weather	Max	Min	Rain
Casino....	b	96	59	0
Tenterfi'ld	b	84	46	0
Grafton..	b	97	51	0
Inverell..	b	84	52	0
Bourke ..	b	84	60	0
Narrabri..	..	..	..	..
Armidale.	b	79	52	0
Bendemeer	b	75	41	0
Gunnedah	..	..	.	.
Coonab'an	b	93	40	0
P. Macqrie	b	93	57	0
Murr'undi	b	80	52	0
Cassilis ..	b	79	.	0
Mus'brook	b	96	59	0
Dubbo...	b	77	54	0
Mudgee ..	b	77	50	0
Maitland .	.	..	..	.
Newcastle	b	83	55	0
Orange ..	.	..	..	..
Bathurst..	c	65	40	0
MtVictoria	u	69	41	0
Forbes...	b	76	58	0
SYDNEY	u	77	57	0
Wentwth	b	75	57	0
Young...	.	..	.	.
Woll'gong	b	77	56	0
Moss Vale	c	66	44	0
Euston...	..	..	..	0
Goulburn.	b	74	42	0
Wagga...	u	70	48	0
Cape Geo.	b	73	..	0
Queanb'an	b	71	46	0
Deniliquin	b	75	56	0
Albury...	u	67	42	0·08
Bodalla ..	b	76	40	0
Cooma...	c	62	36	0
Eden.....	b	78	51	0·15
Gabo Isld.	b	61	52	0·55



METEOROLOGICAL REPORTS—NOVEMBER 27.

South Australia: The barometers have risen since 9 p.m.; weather fine; strong wind on coast, wind generally from S.W.; 0·01 rain fell at Cape Borda, and 0·05 at Rose; rough sea at both those stations. Victoria: Weather throughout showery and squally; it was also showery at Melbourne and Cape Otway at 9 p.m.; S.W. wind at Portland, and W.S.W. at the other stations; sea rather rough at Cape Otway and Wilson's Promontory; 0·47 rain fell at Cape Otway; 0·25 at Portland, and 0·26 at Wilson's Promontory; hailstorms there during night. New South Wales: Fine generally, except to southward of colony; wind between S.W. and N.W.; rough sea at Cape Island; raining at Young, and showery at Wagga Wagga and Cooma. Queensland: Fine at Rockhampton, with the wind inclining to the E.; smooth sea at Cape Moreton, Cooktown, 29·65, N.E., 18, fine, temperature 88°. 3 p.m. Observations.—Victoria: Melbourne, N.W., 23, squally, temperature 54°; Portland, S.W., 40, squally, smooth sea, temperature 57°; Cape Otway, W., 45, cloudy, rough sea, temperature 55°; Wilson's Promontory, no report. New South Wales: Deniliquin S.W., fine; Albury, S.W., strong, showery, hailstorms; Goulburn, W.S.W., strong, showery; Eden, S.W., light, cloudy, E., sea; Moruya, S.E., cloudy, sea moderate; Cape George, S.W., strong, like storm, sea smooth; Sydney, W., strong, cloudy, sea smooth; Newcastle, W.S.W., cloudy, sea smooth; Port Macquarie, W., strong, fine, sea smooth; Clarence River, N.W., fine, bar smooth. State of Rivers: Murrumbidgee, at Hay, 15 feet 6 inches above summer level; at Balranald, 13 feet 9 inches above summer level. Murray, at Albury, 7 feet 3 inches above summer level; at Euston, 21 feet 11 inches above summer level. Darling, at Wentworth, 22 feet 2 inches above summer level; at Pooncarie, 22 feet 3 inches above summer level; Menindi, 25 feet 10 inches above summer level; at Wilcania, 33 feet 7 inches above summer level.

WEATHER MAP.

27 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 27 November..61·372.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Prontry. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W.Q.T.	Max	Min	Rain
Casino....	b	90	57	0
Tenterfi'ld	b	74	54	0
Grafton..	b	90	44	0
Inverell..	b	84	50	0
Bourke ..	b	87	56	0
Narrabri..	..	82	52	..
Armidale .	c	73	51	0
Bendemeer	c	72	45	0
Gunnedah	..	87	44	.
Coonab'an	b	88	..	0·03
P. Macqrie	b	74	63	0·12
Murr'undi	b	71	53	0
Cassilis ..	b	77	.	0·15
Mus'brook	b	..	53	0·13
Dubbo.. .	b	77	54	0
Mudgee ..	c	77	47	0·09
Maitland .	.	82	54	0·07
Newcastle	c	82	54	0·03
Orange ..	g	67	35	0·40
Bathurst..	..	64	45	0·20
Mt Victoria	u	66	40	0·06
Forbes.. .	c	77	45	0·18
SYDNEY	b	71	56	0·05
Wentw'th	..	..	..	0
Young...	r	64	47	0·65
Woll'gong	b	72	55	0
Moss Vale	c	65	44	0·10
Euston...	g	59	50	0
Goulburn.	g	66	41	0
Wagga ..	p	69	38	0
Cape Geo.	b	69	..	0
Queanb'an	c	70	43	0·17
Deniliquin	b	84	44	0
Albury...	u	6	44	0·65
Bodalla ..	c	78	45	0
Cooma...	p	67	35	0·35
Eden.....	g	74	50	0·21
Gabo Isld.	g	67	40	0·44

METEOROLOGICAL REPORTS—November 28.

South Australia: Cloudy generally, with falling barometer; fine in centre of colony; sea on S. coast; smooth at Robe, and rough at Cape Borda, with light N.E. winds; no rain. Victoria: Fine, with light clouds; sea rather rough and moderate, barometer rising, wind fresh from W.; rain at Melbourne 0·16, Cape Otway 0·11, Portland 0·02, and Wilson's Promontory 0·16. New South Wales: Fine generally; cloudy on coast E. of Cape St. George; smooth sea on coast, with light S.W. wind and rising barometers; fine and calm generally, inland. (For rain measurements see weather map.) Queensland: Brisbane, 10·93, 80°, S.W., 3.; fine, clear. 3 p.m. Observations.—Victoria, barometers steady: Melbourne, S.S.W., 13, cloudy, temperature 62°; Portland, S., 8, cloudy, smooth sea, temperature 56°. Cape Otway, W.S.W., 8, cloudy, moderate sea, temperature 57°. Wilson's Promontory, W.S.W., 23, cloudy, moderate sea, temperature 56°; New South Wales: Wentworth, N.W., fine, temperature 74°, Goulburn, W., fine, temperature 62°; Forbes, calm fine, temperature 78; Eden, S.W., 14, fine, light sea, temperature 62°; Moruya, S.S.E., 42, fine, smooth sea, temperature 58°; Cape, George, S.S.E., 42, fine, smooth sea, temperature 62°; Sydney S.S.E., 8, fine, smooth sea, temperature 68°; Newcastle, S. strong, fine, sea rising, temperature 70°; Port Macquarie, E.S.E., 56, hazy, smooth sea, temperature 71°; Clarence River, S., fine, smooth sea, temperature 76°. State of Rivers: Murrumbidgee, at Wagga, 6 feet 8 inches above summer level; at Hay, 13 feet 7 inches above summer level; at Balranald, 17 feet 8 inches above summer level. Murray, at Albury, 7 feet 3 inches above summer level. Darling, at Wentworth, 18 feet 3 inches above summer level; at Poonearie, 22 feet 4 inches above summer level; at Menindie, 28 feet 11 inches above summer level; at Wilcannia, 33 feet 7 inches above summer level.

WEATHER MAP.

28 NOV., 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

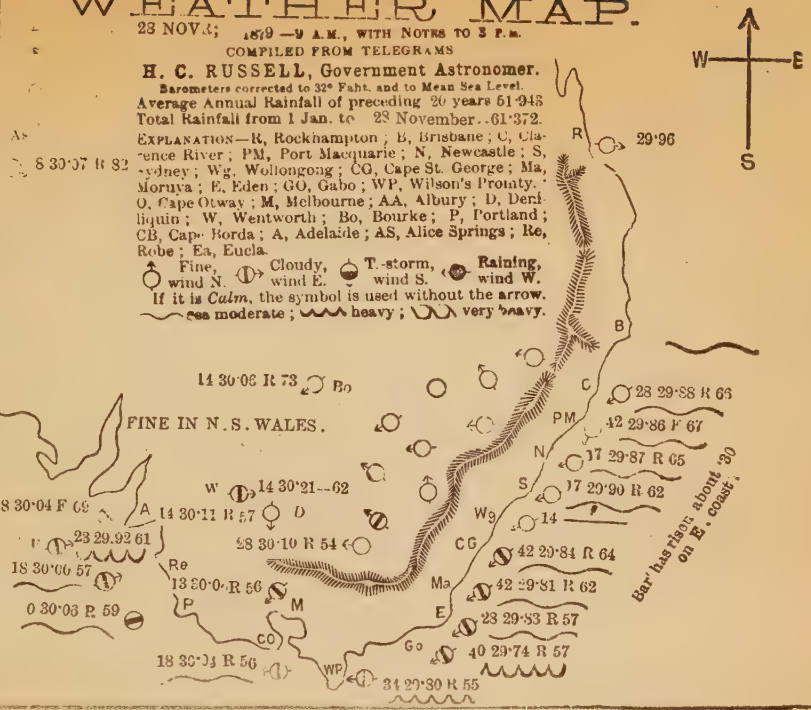
Total Rainfall from 1 Jan. to 28 November..61·372.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Casino....	b	98	56	0
Tenterfi'ld	b	71	44	0
Grafton..	b	85	46	0
Inverell..	b	82	46	0
Bourke ..	b	81	55	0
Narrabri..	b	81	52	0
Armidale .	b	70	42	0
Bendemeer	b	71	43	0
Gunnedah	..	..	..	.
Coonab'an	b	89	36	0
P. Macqrie	b	84	57	0
Murr'undi	b	69	47	0
Cassilis ..	b	71	.	0
Mus'brook	.	..	..	..
Dubbo...	b	78	49	0
Mudgee ..	b	67	48	0
Maitland .	b	76	50	0
Newcastle	b	81	56	0
Orange ..	b	76	29	0·05
Bathurst..	b	53	38	0·07
MtVictoria	b	55	35	0
Forbes...	b	75	58	0
23 29·87 73 Ea				
SYDNEY	b	66	52	0
Wentw'th	c	72	45	0
Young...	b	59	42	0·15
Woll'gong	b	70	57	0
Moss Vale	..	..	..	..
Euston...	..	..	..	..
Goulburn.	b	66	38	0·02
Wagga ..	b	65	43	0
Cape Geo.	c	73	..	0
Queanb'an	b	73	40	0
Deniliquin	b	81	40	0
Albury...	b	63	39	0·08
Bodalla ..	b	71	40	0·10
Cooma...	c	57	38	0·14
Eden.....	c	65	50	0·11
Gabo Isld.	u	60	48	0·30

METEOROLOGICAL REPORTS—NOVEMBER 29.

South Australia: Weather generally fine and clear, barometers at Adelaide 30·01, risen 0·20 since last night, wind S.W., 13, similar rise with S. to S.W. winds reported along the coast, sea rough at Cape Borda. Victoria: Fine, strong variable winds, smooth sea and falling barometers on coast, rain at Melbourne 0·04, Cape Otway 0·08, and Wilson's Promontory 0·01. New South Wales: Fine generally, cloudy weather on coast S. of Moruya, and inland near Albury and Wagga, smooth sea on coast with rising barometers and light variable winds. (For yesterday's rain see weather map.) Queensland: Smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Portland, W.S.W., 28, cloudy, smooth sea, temperature 62°: Wilson's Promontory, N.E., 23, fine, moderate sea, temperature 68°. New South Wales: Wentworth, N.W., strong hot wind; Deniliquin, W., fine, temperature, 80°; Albury, N.E., 20, fine, temperature, 68°; Forbes, calm, fine, temperature, 79°; Eden, N.E., 14, cloudy, sea smooth, temperature, 62°; Moruya, N.E., 20, fine, moderate sea, temperature, 65°; Cape George, N.E., 20, fine, sea smooth, temperature, 65°; Sydney, N.E., 20, barometer steady, very fine, temperature, 66°; Newcastle, E., 10, fine, sea smooth, temperature, 70°; Port Macquarie, E., 14, fine, temperature, 71° State of Rivers: Murrumbidgee, at Wagga, 7 feet 6 inches above summer level; at Hay, 13 feet 4 inches above summer level; at Balranald, 14 feet 8 inches above summer level. Murray, at Albury, 7 feet 2 inches above summer level; Euston, 22 feet above summer level. Darling, at Wentworth, 20 feet 4 inches above summer level; at Pooncarie, 23 feet 5 inches above summer level; at Menindie, 28 feet 11 inches above summer level; at Wilcannia, 31 feet 7 inches above summer level.

WEATHER MAP.

29 NOVR; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

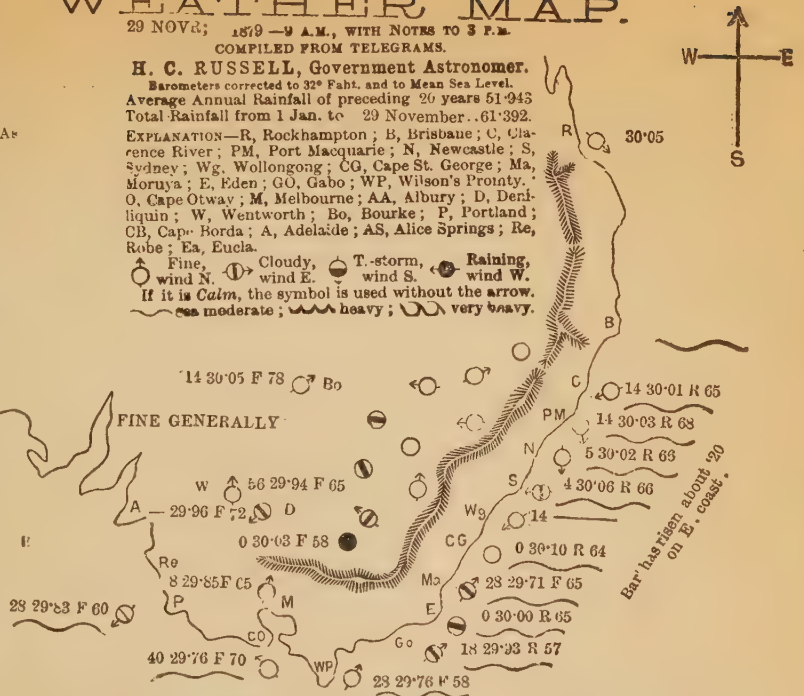
Total Rainfall from 1 Jan. to 29 November..61·392.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	Weather	Max	Min	Rain	
Casino....	b	84	52	0	
Tenterfi'ld	b	70	40	0	
Grafton..	b	85	39	0	
Inverell..	b	74	43	0	
Bourke ..	b	88	57	0	
Narrabri..	b	80	50	0	As
Armidale.	b	70	44	0	
Bendemeer	b	72	40	0	
Gunnedah	b	84	39	0	
Coonab'an	b	100	36	0	
P. Macqrie	b	75	53	0	
Murr'undi	b	88	48	0	
Cassilis ..	b	74	..	0	
Mus'brook	b	84	51	0	
Dubbo...	b	74	45	0	
Mudgee ..	b	75	45	0	
Maitland .	b	77	56	0	
Newcastle	b	76	58	0	
Orange ..	b	72	32	0	
Bathurst..	b	66	40	0	
Mt Victoria	b	70	38	0	
Forbes...	c	79	60	0	
		Ea			
SYDNEY	u	70	57	0·02	
Wentw'th	b	93	61	0	
Young...	u	62	46	0	
Woll'gong	b	70	54	0	
Moss Vale	..	..	..	..	
Euston...	b	76	40	0	
Goulburn.	b	70	39	0	
Wagga...	u	72	39	0	
Cape Geo.	b	67	..	0	
Queanb'an	b	72	46	0	
Deniliquin	b	74	54	0·02	
Albury...	r	74	47	0·05	
Bodalla ..	b	74	51	0·02	
Cooma...	c	62	37	0·08	
Eden.....	b	67	48	0	
Gabo Isld.	u	64	50	0·06	

METEOROLOGICAL REPORTS—DECEMBER 1.

South Australia: Cloudy, strong W. wind, rough sea, and rising barometer generally on S. coast; rain at Adelaide, 0·11, and Robe, 0·02. Victoria: Squally and showery, with strong W. wind and rising barometers at Melbourne and Portland. No telegrams received from Cape Otway or Wilson's Promontory, lines being down. Rain at Portland, 0·16, and Melbourne, 0·20. New South Wales: Fine generally, squally and raining with rough sea at Gabo Island, light clouds at Eden, Mudgee, and Narrabri, strong hot W.N.W. wind at Sydney all forenoon, blowing at the rate of about 48 miles per hour, changed at 4.15 p.m. to fresh southerly, barometers falling with smooth sea on coast. Queensland: Squally with clear weather at Cooktown, smooth E.S.E. swell at Cape Moreton. 3 p.m Observations.—Victoria: Melbourne, barometers risen about 0.12. W.N.W., 18, squally with rain, 63°; Portland, W., 40, squally, smooth sea, 59°; Cape Otway, W.N.W., 40, squally with rain, moderate sea, 64.; Wilson's Promontory, W., 48, squally, high sea, 60°. New South Wales: Wentworth, S.W., fine, temperature 78°; Deniliquin. S.W., 28, fine, temperature 78.; Albury, W., fine, temperature 71°; Forbes, S.E., cloudy, temperature 81°; Eden, S.W., 28, fine, light sea, temperature 72°; Moruya. N.E., fine, 42, moderate sea, temperature 64°; Cape George, S., 42, fine, smooth sea, temperature 77°; Sydney, N.W., 40, fine, hot wind, smooth sea, temperature 95°; Newcastle, W.N.N., strong, hazy, smooth sea, temperature 94°; Port Macquarie, N.E., 42 hazy, smooth sea, temperature 75°; Clarence River, N.E., 42, fine, smooth sea, temperature 74°. State of Rivers: Murrumbidgee, at Hay, 13 feet 6 inches above summer level; at Balranald, 14 feet 6 inches above summer level. Murray, at Albury, 7 feet above summer level; Euston, 22 feet 2 inches above summer level. Darling, at Wentworth, 20 feet 6 inches above summer level; at Pooncarie, 23 feet 4 inches above summer level; at Menindie, 29 feet above summe level; at Wilcannia, 33 feet 7 inches above summer level.

WEATHER MAP.

1 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

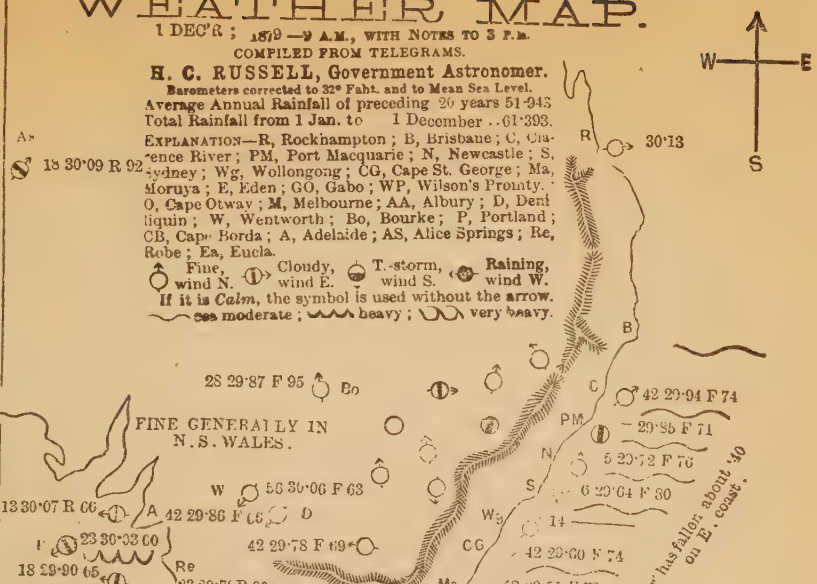
Total Rainfall from 1 Jan. to 1 December ..61·393.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. **Raining, wind W.**

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.



Stations	W'th'r	Max	Min	Rain
Casino....	.	..	..	.
Tenterfi'ld	b	85	57	0
Grafton..	..	..	..	..
Inverell..	b	85	50	0
Bourke ..	b	101	80	0
Narrabri..	c	94	49	0
Armidale .	b	82	50	0
Bendemeer	b	85	51	0
Gunnedah	..	..	..	..
Coonab'an	b	..	79	0
P. Macqrie	u	79	66	0
Murr'undi	b	88	59	0
Cassilis ..	u	92	.	0
Mus'brook	b	.	40	0
Dubbo...	b	92	56	0
Mudgee ..	u	93	52	0
Maitland .	b	99	57	0
Newcastle	b	98	66	0
Orange ..	b	83	52	0
Bathurst..	b	88	48	0
MtVictoria	b	84	76	0
Forbes...	b	78	62	0
SYDNEY	c	84	66	0
Wentw'th	b	89	55	0·03
Young...	b	83	51	0
Woll'gong	b	71	56	0
Moss Vale	b	83	64	0
Euston...	b	66	45	0·13
Goulburn.	b	84	45	0
Wagga...	..	..	..	..
Cape Geo.	b	70	..	0
Queanb'an	b	86	39	0·04
Deniliquin	b	93	54	0·09
Albury...	b	90	50	0·26
Bodalla ..	b	79	54	0
Cooma...	..	..	..	..
Eden.....	u	75	58	0·01
Gabo Isld.	r	72	58	0

METEOROLOGICAL REPORTS—DECEMBER 2.

South Australia: Fine generally, with light clouds, barometer steady, sea smooth, light westerly and northerly winds, no rain. Victoria: Cloudy, showery, and squally at Wilson's Promontory, rain 0·02, sea moderate, strong W. winds on coast, sea rather rough at Cape Otway. New South Wales: Fine generally, cloudy on coast S. of Sydney, fine, calm, and warm inland, rising barometers, with smooth sea and light N.E. winds on coasts, hot winds from W.N.W. over centre of colony yesterday. Queensland: Brisbane, fine and clear, with light N.E. breeze and smooth sea; Cooktown, strong easterly squalls. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, fine, warm, temperature 69°; Portland, W., 34, cloudy, sea smooth, temperature 64°; Cape Otway, W.N.W., 18, cloudy, sea rough, temperature 63°; Wilson's Promontory, W., 28, fine, sea moderate, temperature 68°. New South Wales: Wentworth, NW., fine, temperature 78°; Deniliquin, S., fine, temperature 75°; Albury, W., 14, fine, temperature 71°; Goulburn, W., 14, fine, temperature 73°; Eden, E.N.E., 14, fine, little sea, temperature 65°; Cape George, N.E., 42, fine, moderate sea, temperature 67°; Sydney, N.E., 14, fine, smooth, temperature 69°; Newcastle, E.N.E., 8, dull, smooth sea, temperature 74°; Clarence River, S.E., 23, fine, smooth sea, temperature 92°. State of Rivers: Murrumbidgee—At Wagga, 7 feet 9 inches above summer level; at Hay, 13 feet 2 inches above summer level; at Balranald, 17 feet 6 inches. Murray—At Albury, 6 feet 10 inches above summer level; at Euston, 23 feet 3 inches above summer level. Darling—At Wentworth, 18 feet 7 inches above summer level; Pooncarie, 3 feet 4 inches above summer level; at Menindi, 29 feet; at Wilcannia, 33 feet 6 inches.

WEATHER MAP.

2 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

Total Rainfall from 1 Jan. to 2 December ..61·409.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

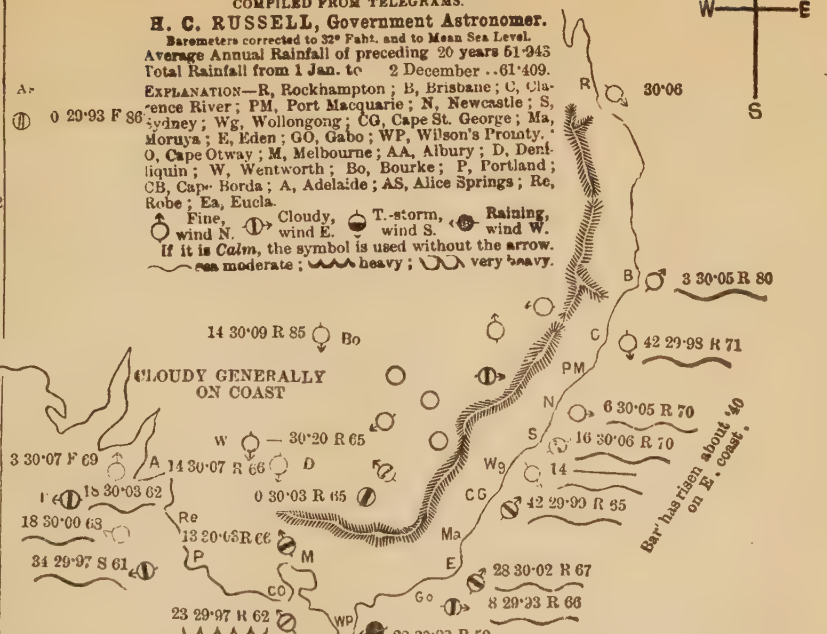
If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

W — E

S

Stations	W'th'r	Max	Min	Rain
Casino....	b	96	73	0
Tenterfi'ld	b	83	62	0
Grafton..	b	97	58	0
Inverell..	b	86	52	0
Bourke ..	b	105	63	0
Narrabri..	..	..	..	0
Armidale .	b	85	50	0
Bendemeer	c	85	51	0
Gunnedah	b	99	59	0
Coonab'an	b	113	51	0
P. Macqrie	..	..	..	..
Murr'undi	b	90	63	0
Cassilis ..	b	99	.	0·12
Mus'brook	c	.	62	0
Dubbo...	b	95	57	0
Mudgee ..	b	94	56	0
Maitland .	u	100	71	0
Newcastle	b	100	65	0
Orange ..	b	86	38	0
Bathurst..	b	84	45	0
MtVictoria	b	87	50	0
Forbes...	b	82	53	0
SYDNEY	u	97	64	0·02
Wentw'th	b	79	50	0
Young...	b	81	79	0
Woll'gong	b	94	62	0
Moss Vale	b	87	55	0
Euston...	b	76	45	0
Goulburn.	b	84	46	0
Wagga...	b	82	41	0
Cape Geo.	b	69	..	0
Queanb'an	b	85	47	0
Deniliquin	b	73	46	0
Albury...	c	80	46	0
Bodalla ..	b	92	52	0
Cooma...	c	74	38	0
Eden.....	b	75	51	0
Gabo Isld.	b	72	54	0



METEOROLOGICAL REPORTS—DECEMBER 3.

South Australia: Cloudy, with fresh westerly winds, smooth sea, and rising barometer; no rain. Victoria: Cloudy and showery; strong westerly squalls, with rising sea and falling barometers on coast. Rain at Melbourne, 0·01; Portland, 0.20; Wilson's Promontory, 0·23; Cape Otway, 0·20. New South Wales: Fine generally; light clouds at a few of the southern coast stations and inland; S.W. at Euston, Wentworth, Deniliquin, Albury, &c.; smooth sea, with light N.E. winds and falling barometers, on coast. Queensland: Smooth sea at Brisbane Heads. 3 p.m. Observations.—Victoria: Melbourne, S.W., 18, cloudy, temperature 74·; Portland, W., 48, squally, smooth sea, temperature 62·; Cape Otway, N.W., 48, dull, rather rough sea, temperature, 62·; Wilson's Promontory, W., 23, squally, showery, slight sea, temperature 62·. New South Wales: Wentworth, S., fine, hot, temperature 86·; Deniliquin, calm, fine, temperature 79·; Albury, calm, cloudy, temperature 71·; Goulburn, W., 10, fine, temperature 77·; Forbes, calm, fine, temperature 85·; Eden, calm, like rain, sea smooth, temperature 68·; Moruya, N.W., 40, fine, sea moderate, temperature 65·; Cape George, N., 20, temperature 71·; Sydney, N.E., 14, cloudy, sea smooth, temperature 72·; Newcastle, E., 10, fine, sea smooth, temperature 81·; Port Macquarie, N.E., 30, hazy, sea smooth, temperature 77·; Clarence River, N.E., 14, sea smooth, temperature 77·. State of Rivers: Murrumbidgee—At Wagga, 7 feet 6 inches above summer level; at Hay, 13 feet 3 inches above summer level; at Balranald, 17 feet 3 inches above summer level. Murray—At Albury, 6 feet 10 inches above summer level; at Euston, 22 feet 2 inches above summer level. Darling—At Wentworth, 18 feet 8 inches above summer level; Pooncarie, 23 feet 4 inches above summer level; at Menindi, 29 feet 1 inch above summer level; at Wilcannia, 33 feet 6 inches above summer level.

Stations	Wh'r	Max	Min	Rain
Casino....	b	97	61	0
Tenterfi'ld	b	89	63	0
Grafton..	u	92	56	0·75
Inverell..	b	85	50	0
Bourke ..	b	93	69	0
Narrabri..	b	90	59	0
Armidale .	b	87	49	0
Bendemeer	b	87	52	0
Gunnedah	..	..	..	..
Coonab'an	b	..	43	0
P. Macqrie	..	..	..	0
Murr'undi	b	81	61	..
Cassilis ..	b	93	.	0
Mus'brook	u	.	59	0
Dubbo...	b	84	59	0
Mudgee ..	b	90	57	0
Maitland .	u	79	64	0
Newcastle	u	80	64	0
Orange ..	b	86	38	0
Rathurst..	b	82	45	0
MtVictoria	b	89	48	0
Forbes...	b	83	65	0
3 30 69 85 Ba				
SYDNEY	b	73	60	0
Wentw'th	b	83	60	0
Young...	b	79	51	0
Woll'gong	b	76	52	0
Moss Vale	b	80	51	0
Euston...	u	76	46	0
Goulburn.	b	84	44	0
Wagga...	b	82	51	0
Cape Geo.	..	..	..	..
Queanb'an	b	83	47	0
Deniliquin	u	86	57	0
Albury...	u	83	48	0
Bodalla ..	..	..	..	0
Cooma...	u	76	39	0
Eden....	c	71	56	0
Gabo Isld.	c	74	60	0

WEATHER MAP.

3 DEC'R; 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

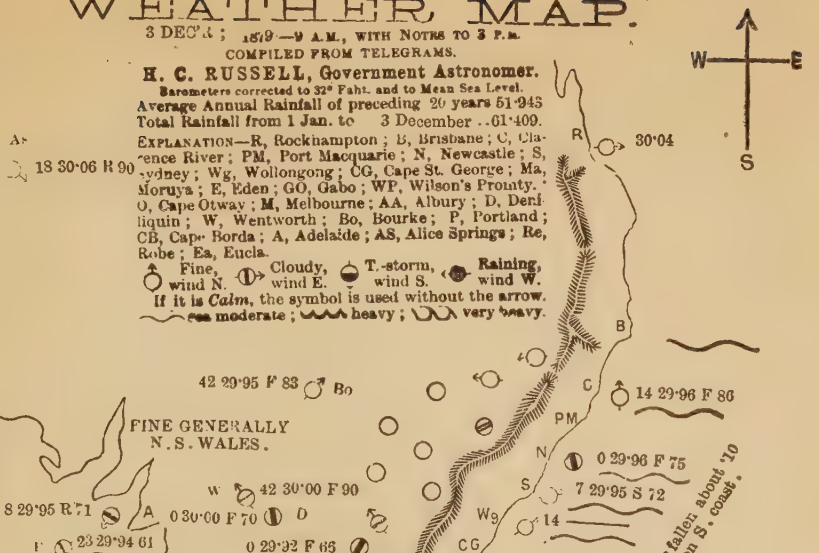
Total Rainfall from 1 Jan. to 3 December ..61·409.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



METEOROLOGICAL REPORTS—DECEMBER 4.

South Australia, fine clear weather with steady barometers, sea smooth, light winds and calms, no rain; Victoria, cloudy, strong westerly winds on coast, sea only moderate, barometers steady, rain at Cape Otway 0·02, Wilson's Promontory 0·48, and Portland 0·02; New South Wales, fine throughout, light clouds at Sydney, Cape St. George, and Moruya, smooth sea on coast with fresh southerly wind and falling barometers, calm generally inland, rain at Eden 0·01; Queensland, Cooktown, sultry and overcast, smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 13, fine, temperature, 65°; Portland, S.W., 23, cloudy, smooth sea, temperature 62°; Cape Otway, W.N.W., 18, gloomy, moderate sea, temperature 65°; Wilson's Promontory, W., 23, cloudy, moderate sea, temperature 62°; Wentworth, N.W., fine, temperature 80°; Deniliquin, calm, fine, temperature 69°; Albury, calm, fine, temperature 72°; Goulburn, W. 8°, fine, temperature 78°; Forbes, calm, fine, temperature 84°; Eden, E., 20°, fine, temperature 67; Moruya, S.E. 28°, cloudy, moderate, temperature 64; Cape George, E. 26°, fine, smooth, temperature 67°; Sydney, S.E. 14°, cloudy, smooth, temperature 68°; Newcastle, S.E. 24°, hazy, smooth, temperature 74°; Port Macquarie, N.N.E. 28°, cloudy, moderate, temperature 77°. State of Rivers: Murrumbidgee—At Wagga, 7 feet 6 inches above summer level; at Hay, 13 feet 3 inches above summer level; at Balranald, 14 feet 4 inches above summer level. Murray—At Euston, 22 feet 1 inch above summer level. Darling—At Wentworth, 18 feet 7 inches above summer level; Pooncarie, 23 feet 4 inches above summer level; at Menindie, 29 feet 1 inch above summer level; at Wilcannia, 33 feet 5 inches above summer level.

WEATHER MAP.

4 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 4 December ..61·449.

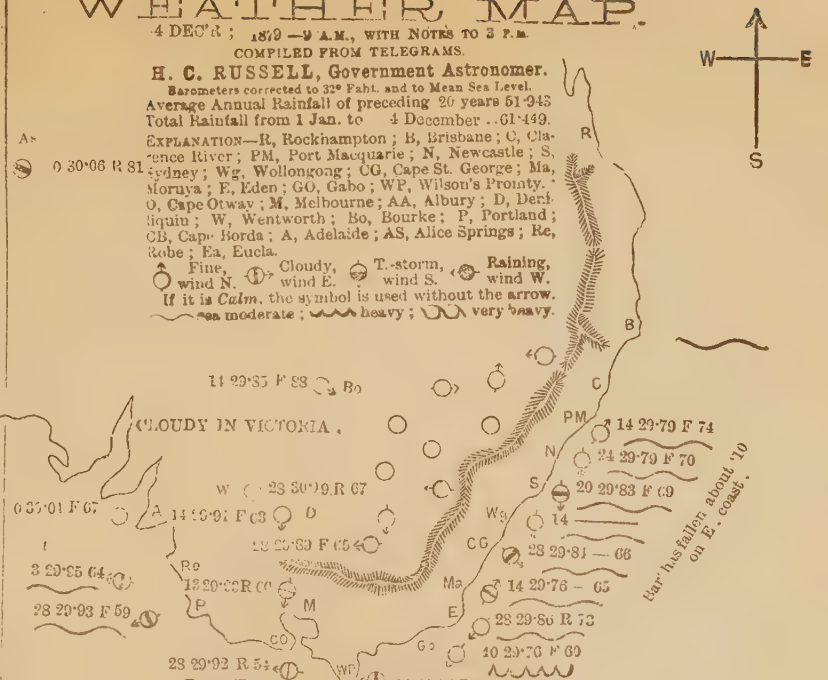
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	W'ther	Max	Min	Rain
Casino....	b	93	..	0
Tenterfi'ld	b	85	63	0
Grafton..	b	91	57	0
Inverell..	b	86	62	0
Bourke ..	b	104	71	0
Narrabri..	b	95	60	0
Armidale .	b	86	51	0
Bendemeer	b	89	81	0
Gunnedah	b	107	52	0
Coonab'an	b	..	49	0
P. Macqrie	b	79	65	0
Murr'undi	b	88	62	0
Cassilis ..	b	76	..	0
Mus'brook	b	..	55	0
Dubbo...	b	99	64	0
Mudgee ..	b	89	57	0
Maitland .	b	91	65	0
Newcastle	b	80	63	0
Orange ..	b	88	47	0
Bathurst..	b	85	54	0
MtVictoria	b	87	59	0
Forbes...	b	86	5	0
Sydney	c	76	65	0
Wentw'th	b	89	59	0
Young...	b	84	55	0
Woll'gong	b	78	63	0
Moss Vale	b	84	58	0
Euston...	b	71	40	0
Goulburn.	b	84	42	0
Wagga...	b	80	42	0
Cape Geo.	c	73	..	0
Queanb'an	b	88	55	0
Deniliquin	b	85	50	0
Albury...	b	82	44	0
Bodalla ..	b	88	51	0
Cooma...	b	81	42	0
Eden.....	b	76	56	0·01
Gabo Isld.	b	76	58	0



WEATHER MAP.

5 DEC'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

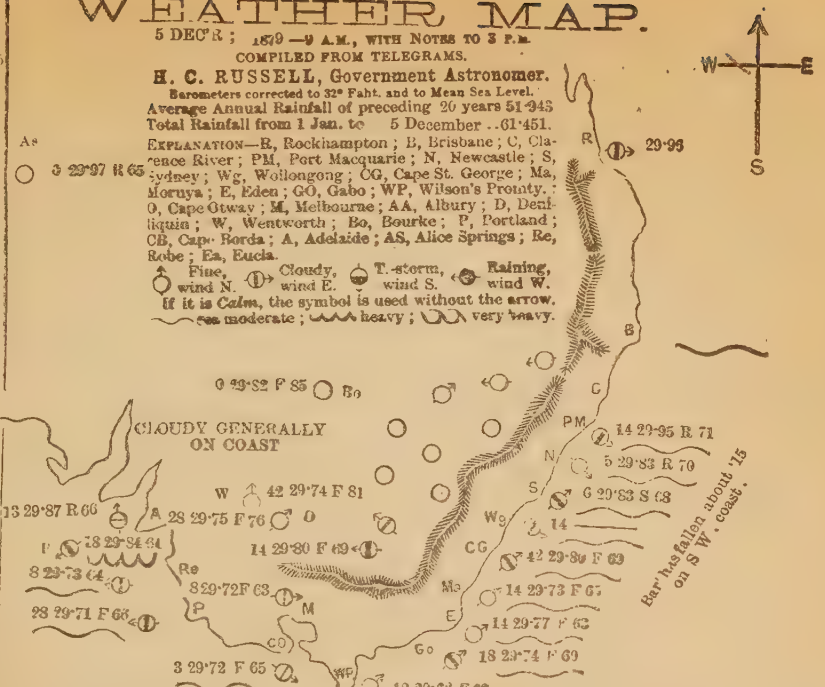
Total Rainfall from 1 Jan. to 5 December ..61·451.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	W'th'r	Max	Min	Rain
Casino....	b	98	64	0·25
Teuterfi'ld	b	99	60	0
Grafton..	u	99	55	0
Inverell..	b	89	63	0
Bourke ..	b	102	62	0
Narrabri..	b	97	69	0
Armidale .	b	90	50	0
Bendemeer	b	89	52	0
Gunnedah	b	106	55	0
Coonab'an	b	..	45	0
P. Macqrie	u	79	64	0
Murr'undi	b	92	64	0
Cassilis ..	b	99	.	0
Mus'brook	u	.	65	0
Dubbo...	b	91	58	0
Mudgee ..	b	92	64	0
Maitland .	c	84	68	0
Newcastle	b	75	64	0
Orange ..	b	88	39	0
Bathurst..	b	85	49	0
MtVictoria	b	83	52	0
Forbes...	o	86	4	0
8 29 98 69 Ea				
SYDNEY	u	73	63	0
Wentw'th	b	86	55	0
Young...	b	83	53	0
Woll'gong	c	71	62	0
Moss Vale	b	75	56	0
Euston...	b	81	60	0
Goulburn.	b	85	51	0
Wagga...	b	89	57	0
Cape Geo.	c	77	..	0
Queanb'an	b	80	56	0
Deniliquin	b	95	55	0
Albury...	c	81	47	0
Bodalla ..	..	..	..	..
Cooma...	u	80	44	0
Eden.....	u	76	56	0
Gabo Isld.	u	66	58	0

WEATHER MAP.

6 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 6 December ..61·451.

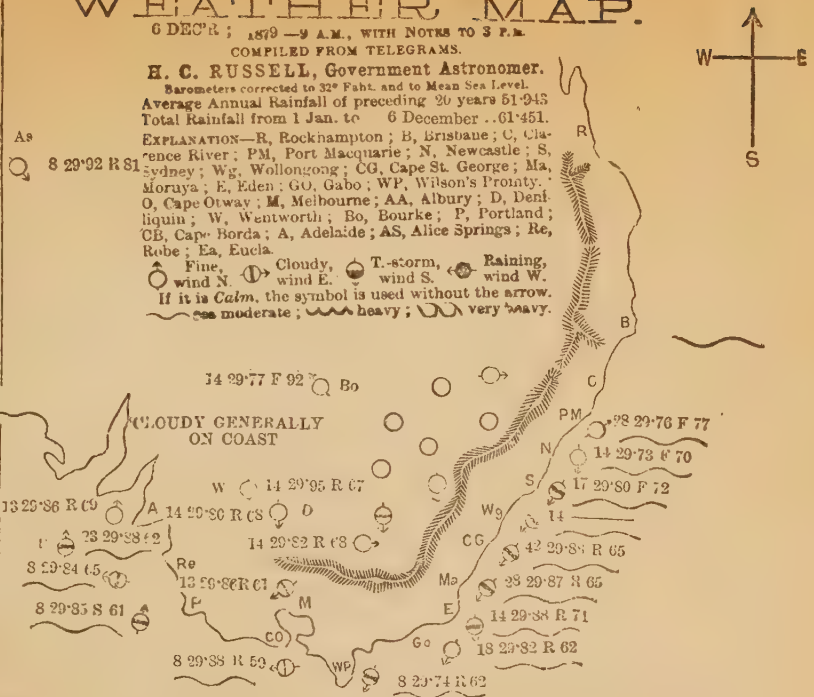
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	b	94	69	0
Tenterfi'ld	..	..	..	..
Grafton..	b	88	57	0
Inverell..	b	88	56	0
Bourke ..	b	105	62	0
Narrabri..	b	93	63	0
Armidale .	b	91	51	0
Bendemeer	b	90	83	0
Gunnedah	..	..	..	..
Coonab'an	c	115	48	0
P. Macqrie	b	78	70	0
Murr'undi	b	88	62	0
Cassilis ..	b	92	.	0
Mus'brook	b	.	61	0
Dubbo...	b	88	64	0
Mudgee ..	b	89	56	0
Maitland .	o	89	61	0
Newcastle	b	76	55	0
Orange ..	b	81	40	0
Bathurst..	b	82	49	0
MtVictoria	b	84	57	0
Forbes...	b	84	65	0
SYDNEY	u	73	61	0
Wentw'th	b	89	51	0
Young...	b	84	54	0
Woll'gong	c	76	64	0
Moss Vale	u	81	58	0
Euston...	b	91	50	0
Goulburn.	u	83	50	0
Wagga...	b	89	50	0
Cape Geo.	b	60	..	0
Queanb'an	b	85	57	0
Deniliquin	b	93	55	0
Albury...	b	87	49	0
Bodalla ..	p	81	58	0·01
Cooma...	c	77	49	0
Eden.....	b	71	50	0·45
Gabo Isld.	b	68	59	0·34



METEOROLOGICAL REPORTS—DECEMBER 8.

South Australia: Fine weather with light and variable wind, smooth sea, and steady barometer; rain at Robe, 0·58. Victoria: Cloudy and squally at all the coast stations; showery with rough sea at Cape Otway; barometers rising, wind strong from W.; rain at Melbourne, 0·12; Cape Otway, 0.41; Wilson's Promontory, 0·82. New South Wales: Fine generally, cloudy sky at several of the N.W. inland stations near Armidale and Inverell; smooth sea with light W. winds and falling barometers on coast. See list in weather map for rain record. Queensland: No telegrams. 3 p.m. Observations.—Victoria, barometers steady,; Melbourne, W., 23, squally, temperature 68°; Portland, W., 34, cloudy, sea smooth, temperature 68°; Caper Otway, line interrupted; Wilson's Promontory, line interrupted. New South Wales: Wentworth, N., fine, temperature 81°; Deniliquin, calm, fine, 79°; Albury, W., fine, 69°; Goulburn, W., fine, 71°; Forbes, N.W., fine, 78°; Eden, E.N.E., fine, smooth, 68°; Moruya, W., 30, fine, moderate, 82°; Cape George, W.S.W., 56, fine, little sea, 76°; Sydney, W., 20, fine, warm, smooth, 81°; Newcastle, S.E., 8, fine, smooth, 78°; Port Macquarie, E., 14, fine, smooth, 79°; Clarence River, N.E., 20, fine, smooth, 76° State of Rivers: Murrumbidgee—At Wagga, 5 feet 11 inches above summer level; at Hay, 12 feet 7 inches above summer level; at Balranald, 17 feet 3 inches above summer level. Murray—At Albury, 5 feet above summer level; at Euston, 22 feet above summer level. Darling—At Wentworth, 21 feet 3 inches above summer level; Pooncarie, 24 feet above summer level; at Menindie, 29 feet above summer level; at Wilcannia, 38 feet 4 inches above summer level.

WEATHER MAP.

8 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·243

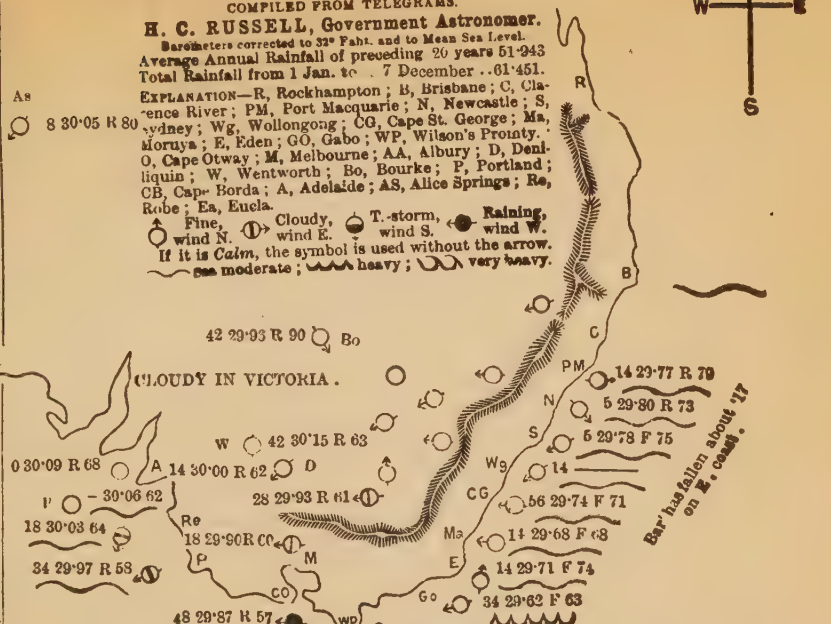
Total Rainfall from 1 Jan. to 7 December ..61·451.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.



Stations	W'th'r	Max	Min	Rain
Casino....	b	94	61	0·48
Tenterfi'ld	b	87	65	0·04
Grafton..	b	89	54	0·55
Inverell..	u	..	65	0·90
Bourke ..	b	107	64	0
Narrabri..	..	..	..	..
Armidale .	u	89	40	0·15
Bendemeer	u	72	62	0
Gunnedah	..	..	..	..
Coonab'an	b	104	63	0
P. Macqrie	..	..	..	..
Murr'undi	u	99	67	0·20
Cassilis ..	b	99	.	0
Mus'brook	b	.	75	0
Dubbo...	b	98	65	0
Mudgee ..	b	94	61	0
Maitland .	b	94	71	0
Newcastle	b	86	69	0·06
Orange ..	..	..	..	..
Bathurst..	b	91	54	0
MtVictoria	b	87	52	0
Forbes...	b	80	60	0
	As			
SYDNEY	b	85	65	0
Wentw'th	b	82	51	0
Young...	b	89	57	0
Woll'gong	b	79	62	0
Moss Vale	b	..	..	0
Euston...	b	79	40	0
Goulburn.	b	82	51	0
Wagga...	b	90	55	0
Cape Geo.	b	78	..	0
Queanb'an	b	86	53	0
Deniliquin	b	99	51	0
Albury...	b	93	50	0
Bodalla ..	b	93	50	0
Cooma...	b	80	45	0
Eden.....	b	75	55	0·01
Gabo Isld.	b	74	54	0·38

METEOROLOGICAL REPORTS—DECEMBER 9.

South Australia: Cloudy, threatening weather on S. coast, with light northerly winds and steady barometers, fine and clear inland and on N. coast at Port Darwin; sea rough at Cape Borda. No rain measurements. Victoria: Fine weather with broken clouds at places; smooth sea on coast, with steady barometers and light easterly winds; no rain. New South Wales: Fine clear weather throughout colony, smooth sea on coast, with light westerly winds and rising barometers; fine and calm inland. Queensland: Smooth sea at Brisbane Heads; Cooktown, 29.93, 88°, calm sultry. 3 p.m., Observations.—Victoria, Melbourne: E., 13, cloudy, temperature 79°; Portland, calm, dull, sea smooth, temperature 67.; Cape Otway, E., 13, cloudy, sea moderate, temperature 65°; Wilson's Promontory, W.S.W., 23, cloudy, sea moderate, temperature 59°. New South Wales: Wentworth, N., 14, hot, temperature 88°; Deniliquin, calm, fine, temperature 64°; Albury, W., 14, fine, temperature 72°; Goulburn, S.W., 14, fine, temperature 75°; Forbes, calm, fine, temperature 80°; Eden, E.S.E., 20, fine, sea smooth, temperature 61°; Cape George, E.N.E., 14, fine, sea smooth, temperature 86°; Sydney, N.E., 14, fine, sea smooth, temperature 75°; Newcastle, E., 14, fine, sea smooth, temperature 76°; Port Macquarie, E.N.E., 14, fine, sea smooth, 77°; Clarence River, E., fine, sea smooth, 77°. State of Rivers: Murrumbidgee, at Hay, 12 feet summer level; at Balranald, 17 feet 4 inches above summer level. Murray, at Euston, 21 feet 9 inches above summer level. Darling, at Wentworth, 21 feet 3 inches above summer level; Pooncarie, 24 feet above summer level; at Menindie, 29 feet above summer level; at Wilcannia, 38 feet above summer level.

WEATHER MAP.

9 DEC'R; 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 52·943

Total Rainfall from 1 Jan. to 9 December ..61·451.

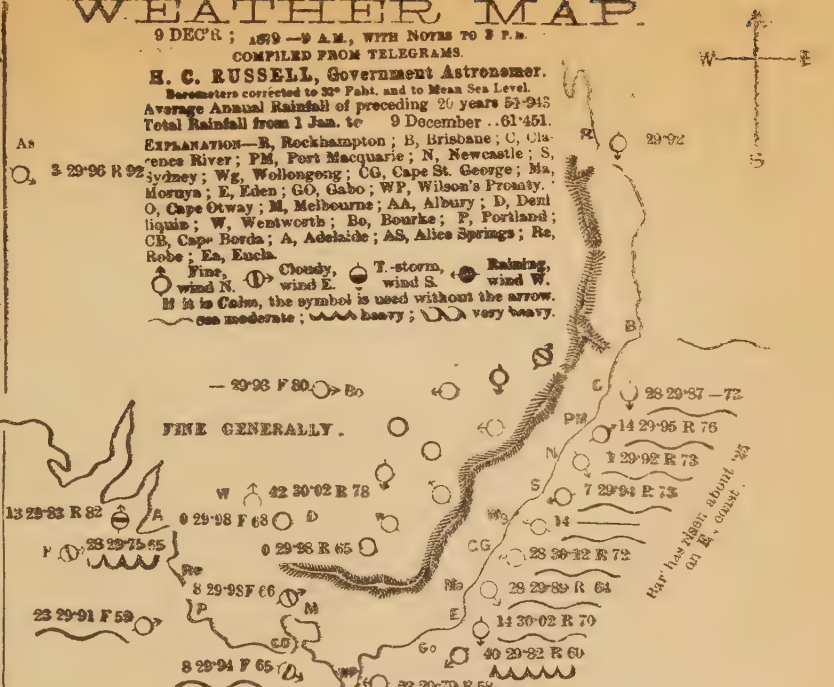
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promntry. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If ½ to Calm, the symbol is used without the arrow.

— sea moderate; ∧∧∧ heavy; ∪∪∪ very heavy.

Stations	W'th'r	Max	Min	Rain
Casino.....	b	96	69	0·21
Tenterfi'ld	u	84	58	0
Grafton..	b	94	55	0
Inverell..	b	86	54	0
Bourke ..	b	94	59	0
Narrabri..	b	92	59	0
Armidale .	b	86	59	0
Bendemeer	b	85	52	0
Gunnedah	b	89	43	0
Coonab'an	b	107	42	0
P. Macqrie	b	81	60	0
Murr'undi	b	86	57	0
Cassilis ..	b	86	.	0
Mus'brook	b	.	54	0
Dubbo...	b	83	57	0
Mudgee ..	b	85	49	0
Maitland .	b	94	61	0
Newcastle	b	87	59	0
Orange ..	b	84	31	0
Bathurst..	b	90	40	0
MtVictoria	b	78	44	0
Forbes...	b	79	58	0
SYDNEY	b	83	60	0
Wentw'th	b	85	55	0
Young...	b	88	48	0
Woll'gong	b	82	63	0
Moss Vale	b	73	49	0
Euston...	b	79	50	0
Goulburn.	b	72	44	0
Wagga...	b	80	40	0
Cape Geo.	b	73	..	0
Queanb'an	b	80	47	0
Deniliquin	b	79	48	0
Albury...	b	91	41	0
Bodalla ..	b	83	45	0
Cooma...	b	69	36	0
Eden.....	b	77	54	0
Gabo Isld.	b	68	55	0



METEOROLOGICAL REPORTS—DECEMBER 10.

South Australia: Cloudy generally on southern coast, with strong S.W. winds and rising barometers. Rough sea at Cape Borda, but smooth with showery weather at Robe, fine, clear, and warm in tropics. Rain at Adelaide, 0·20·6; Cape Borda, 0·03; and Robe, 0·02. Victoria: Cloudy all round coast, but no rain falling or measured; sea smooth, bars falling, wind strong from W., N.E., and N. New South Wales: Fine generally, cloudy sky on coast at Grafton, Port Macquarie, Moruya, and Eden, &c.; inland at Casino, Armidale, Wentworth, Deniliquin, and Albury fine clear weather; elsewhere, light N.E. winds, generally on coast, with falling barometers, and smooth sea. Queensland: Smooth sea at Cape Moreton. 3 p.m. observations: Victoria: Melbourne, W.S.W., 28, squally, temperature 73·; Portland, S.W., 28, dull, sea smooth, temperature 63·; Cape Otway, W., 28, dull, sea moderate, temperature 63·; Wilson's Promontory, W., 33, squally, sea slight, temperature 68·. New South Wales: Wentworth, S., cloudy, temperature 80·; Deniliquin, S.W., dull, temperature 79·; Albury, calm, dull, temperature 72·; Goulburn, calm, dull, temperature 76.; Eden, N.E., 14. fine, sea smooth, temperature 69·; Moruya, N.E., 28, dull, sea smooth, temperature 62·; Cape George, N.E., 14, dull, sea smooth, temperature 68·; Sydney, N.E., 14, cloudy, temperature 76·; Newcastle, N.E., 14, hazy, sea smooth, temperature 80·; Port Macquarie, N.E., 14, dull, sea moderate, temperature 79.; Clarence River, E.S.E., 2[illegible], fine, sea smooth, temperature 77·. State of Rivers: Murrumbidgee, at Hay, 11 feet seven inches above summer level; at Balranald, 13 feet 10 inches above summer level. Murray, at Albury, 4 feet 7 inches above summer level; at Euston, 17 feet 8 inches above summer level. Darling, at Wentworth, 21 feet 3 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 28 feet 11 inches above summer level; at Wilcannia, 30 feet above summer level.

WEATHER MAP.

10 DEC'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 10 December ..61·451.

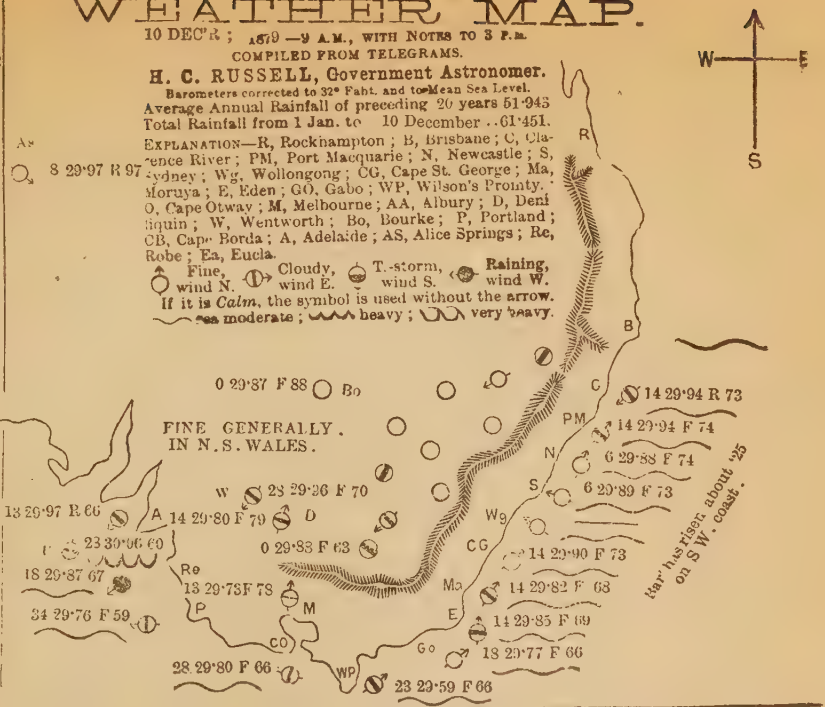
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	u	88	71	0·02
Tenterfi'ld	b	84	58	0
Grafton..	b	91	58	0
Inverell..	b	86	56	0
Bourke ..	b	101	67	0
Narrabri..	b	92	65	0
Armidale .	u	80	47	0
Bendemeer	b	88	53	0
Gunnedah	b	99	57	0
Coonab'an	b	..	51	0
P. Macqrie	b	80	61	0
Murr'umbi	b	85	60	0
Cassilis ..	b	94	..	0
Mus'brook	b	..	51	0
Dubbo...	b	86	59	0
Mudgee ..	b	91	58	0
Maitland .	b	88	62	0
Newcastle	b	78	64	0
Orange ..	c	84	39	0
Bathurst..	b	80	46	0
MtVictoria	b	88	42	0
Forbes...	b	81	61	0
SYDNEY	b	79	61	0
Wentw'th	c	97	64	0
Young...	c	89	48	0
Woll'gong	b	78	66	0
Moss Vale	b	84	55	0
Euston...	b	81	53	0
Goulburn.	b	86	45	0
Wagga...	u	87	61	0
Cape Geo.	b	80	..	0
Queanb'an	b	88	55	0
Deniliquin	u	91	55	0
Albury...	u	90	57	0
Bodalla ..	b	78	59	0
Cooma...	c	87	36	0
Eden.....	c	77	54	0
Gabo Isld.	b	68	55	0



METEOROLOGICAL REPORTS—December 11.

South Australia reports fine clear weather throughout colony, hot in interior; on coast the sea is smooth, the wind generally light from S., and the barometer rising. Victoria: Cloudy, with fresh southerly wind, rising barometer and smooth sea; rain at Wilson's Promontory, 0.02. New South Wales: Cloudy on coast and in the Upper Hunter district, raining at Murrurundi, stormy at Muswellbrook, thunderstorm at Cassilis, showery at Wollongong; smooth sea with steady barometers and fresh S. winds on coast. Queensland: Smooth sea at Moreton Bay. 3 p.m. observations:—Victoria barometers steady: Melbourne, S.S.W., 13, fine, temperature 63°; Portland, S.W., 28, fine, sea smooth, temperature 63°; Cape Otway, S.W., 13, cloudy, smooth sea, temperature 61°; Wilson's Promontory, W., 28, cloudy, moderate sea, temperature 63°; New South Wales: Wentworth, W., fine, temperature 81°; Deniliquin, calm, fine, temperature 82°; Albury, W., 14, fine, temperature 77°; Goulburn, S.E., fine, temperature 77°; Forbes, calm, fine, temperature 80°; Eden, S.W., 42, fine, sea light, temperature 69°; Moruya, S.S.E., 20, cloudy, sea smooth, temperature 67°; Cape George, S.E., 56, threatening, sea rising, temperature 68°; Sydney, S.W., 14, dull, sea smooth, temperature 69°; Newcastle, S., 14, dull, sea smooth, temperature 76°; Clarence River, N.E., stormy, sea smooth, temperature 78°. State of Rivers: Murrumbidgee, at Hay, 11 feet 6 inches above summer level; Murray, at Euston, 21 feet 6 inches above summer level. Darling, at Wentworth, 21 feet 3 inches above summer level; at Pooncarie, 24 feet 3 inches above summer level; at Menindie, 28 feet 10 inches above summer level; at Wilcannia, 20 feet 3 inches above summer level.

WEATHER MAP.

11 DEC'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 11 December ..61·451.

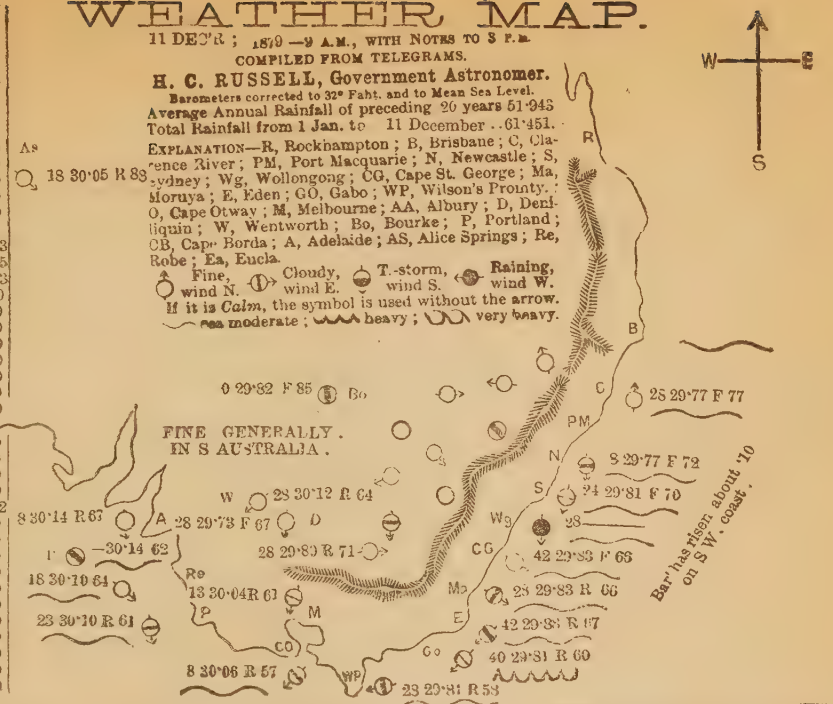
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	b	91	73	0
Tenterfi'd	b	86	51	0
Grafton..	b	92	58	0
Inverell..	b	85	65	0
Bourke ..	b	106	72	0
Narrabri..	b	94	73	0
Armidale .	b	87	50	0
Bendemeer	b	90	55	0
Gunnedah	b	106	4	0
Coonab'an	b	..	58	0
P. Macqrie	..	..	..	..
Murr'undi	r	90	64	0·23
Cassilis ..	t	99	.	0·05
Mus'brook	q	.	66	0·03
Dubbo...	u	92	58	0
Mudgee ..	u	9[illegible]	68	0
Maitland .	u	93	75	0
Newcastle	u	82	64	0
Orange ..	b	89	51	0
Bathurst..	c	89	61	0
MtVictoria	b	90	62	0
Forbes...	b	84	64	0
SYDNEY	u	77	69	0
Wentw'th	b	79	..	0
Young...	b	86	50	0
Woll'gong	p	8[illegible]	66	0
Moss Vale	c	87	62	0·02
Euston...	b	81	50	0
Goulburn.	b	85	60	0
Wagga...	b	81	53	0
Cape Geo.	c	76	..	0
Queanb'an	b	82	60	0
Deniliquin	b	84	53	0
Albury...	b	79	55	0
Bodalla ..	b	88	50	0
Cooma...	c	75	55	0
Eden.....	c	71	61	0
Gabo Isld.	u	70	59	0



METEOROLOGICAL REPORTS—DECEMBER 12.

South Australia: Reports fine clear weather with rising temperature, falling barometers, smooth sea, and light variable winds. No rain fell yesterday. Hot N.E. wind at Eucla. Victoria: Cloudy, light misty rain at Cape Otway. Broken clouds at Melbourne. Smooth sea on coast, with moderate southerly and easterly winds and steady barometers. Rain at Cape Otway 0.12. New South Wales: Fine generally inland: cloudy on coast and in Upper Hunter district. Smooth sea with moderate southerly wind and rising barometers, on coast. See list in weather map for measured rain. Queensland: Smooth sea at Cape Moreton; no further reports received. Cooktown, 29·91, 90°, N.E., barometer steady, 13, sultry. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, fine, temperature 65° Portland, S.E., 28, fine, sea smooth, temperature 65°; Cape Otway, E.N.E., 8, sea smooth, temperature 67°; Wilson's Promontory, E., 8, fine, sea smooth, temperature 70°. New South Wales: Wentworth, S., fine, temperature 82°; Deniliquin, S., 14, fine, temperature 78°; Albury, calm, fine, temperature 76°; Goulburn, E., fine, temperature 71.; Eden, S.W., 42, fine, little sea, temperature 67°; Moruya, S., 42, cloudy, sea moderate, temperature 67°; Cape George, S.S.E., 42, fine, little sea, temperature 66°; Sydney, S., 24, cloudy, sea smooth, temperature 67°; Newcastle, S., 14, dull, sea smooth, temperature 70°; Mount Victoria, E., cloudy, temperature 57°; Clarence River, S., fine, sea smooth, temperature 74°. State of Rivers: Murrumbidgee, at Wagga, 4 feet 11 inches above summer level; at Hay, 11 feet 5 inches above summer level; at Balranald, 27 feet 3 inches above summer level. Murray, at Albury, 4 feet 4 inches above summer level; at Euston, 20 feet above summer level. Darling, at Wentworth, 21 feet 3 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 28 feet 9 inches above summer level; at Wilcannia, 23 feet 3 inches above summer level.

WEATHER MAP.

12 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 12 December ..61·454.

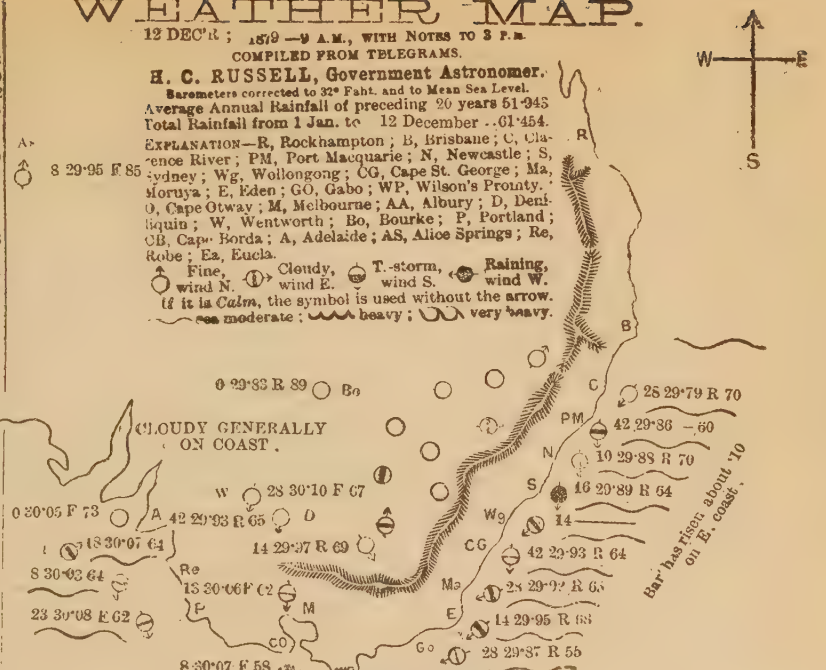
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	b	95	63	0·93
Tenterfi'ld	b	86	58	0·60
Grafton..	b	97	54	0·22
Inverell..	b	87	60	0·58
Bourke ..	b	95	63	0
Narrabri..	b	94	65	0
Armidale .	b	80	45	0·09
Bendemeer	b	91	51	0·87
Gunnedah	..	..	..	..
Coonab'an	b	..	56	0
P. Macqrie	..	..	..	..
Murr'undi	u	74	61	0·78
Cassilis ..	u	68	.	0
Mus'brook	u	.	59	0·04
Dubbo...	u	92	66	0
Mudgee ..	u	92	64	0
Maitland .	u	80	66	0
Newcastle	b	78	60	0
Orange ..	c	83	47	0
Bathurst..	b	86	56	0
Mt Victoria	c	85	47	0
Forbes...	b	85	68	0
SYDNEY	u	73	62	0
Wentw'th	b	85	54	0
Young...	u	85	59	0
Woll'gong	c	73	59	0
Moss Vale	u	72	54	0·15
Euston...	b	82	50	0
Goulburn.	c	83	53	0
Wagga ..	b	89	59	0
Cape Geo.	u	69	..	0
Queanb'an	b	88	53	0·22
Deniliquin	b	84	52	0
Albury...	b	93	48	0
Bodalla ..	b	78	49	0
Cooma...	c	73	44	0
Eden.....	u	67	54	0
Gabo Isld.	p	64	55	0·10



METEOROLOGICAL REPORTS—DECEMBER 13.

South Australia: Barometers falling, weather hot, northerly [illegible] coming on, barometers fallen 0.15 since last night, strong [illegible] wind at Port Darwin last night extending to Alice Springs. Victoria: Cloudy generally, with fresh easterly winds, barometers falling, sea smooth, no rain. New South Wales: Cloudy all down [illegible], showery at Cape St. George, fine and calm inland, smooth sea with falling barometers, and fresh S. winds on coast. See list in weather map for rainfall. Queensland: No reports. [illegible] Observations.—Victoria, barometers fallen 0·10 since 9 a.m.: Portland, E.S.E., 28, fine, sea smooth, temperature 66°; Cape Otway, E., 18, fine, smooth sea, temperature 62°; Wilson's Promontory, E.N.E., 34, cloudy, moderate, temperature 64° New South Wales: Wentworth, cloudy, hot, temperature 87°; Deniliquin, no report; Albury, no report; Goulburn, E.N.E., fine, temperature 68.; Forbes, no report; Eden, S.S.E., 14, fine, [illegible] temperature 67°; [illegible], S.S.E., 20, fine, sea [illegible] temperature 67°; Cape [illegible], S.E., 20, fine, sea moderate, temperature 65°; Sydney, barometer steady, S., 20, fine, little sea, temperature 67°; Newcastle, S., 20, cloudy, little sea, temperature 72; Port Macquarie, S., 30, fine, sea smooth, temperature 81; Clarence River, SE., showery, sea smooth, temperature 68. State of Rivers: Murrumbidgee, at Wagga, 5 feet 10 [illegible] above summer level; at Hay, 11 feet 4 inches above summer level; at Balranald, 15 feet 3 inches above summer level. Murray, at Albury, 4 feet 4 inches above summer level; at Echuca, 10 feet 11 inches above summer level. Darling, at Wentworth, 21 feet 3 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 28 feet 8 inches above summer level; at Wilcannia, 27 feet 6 inches above summer level.

WEATHER MAP.

13 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

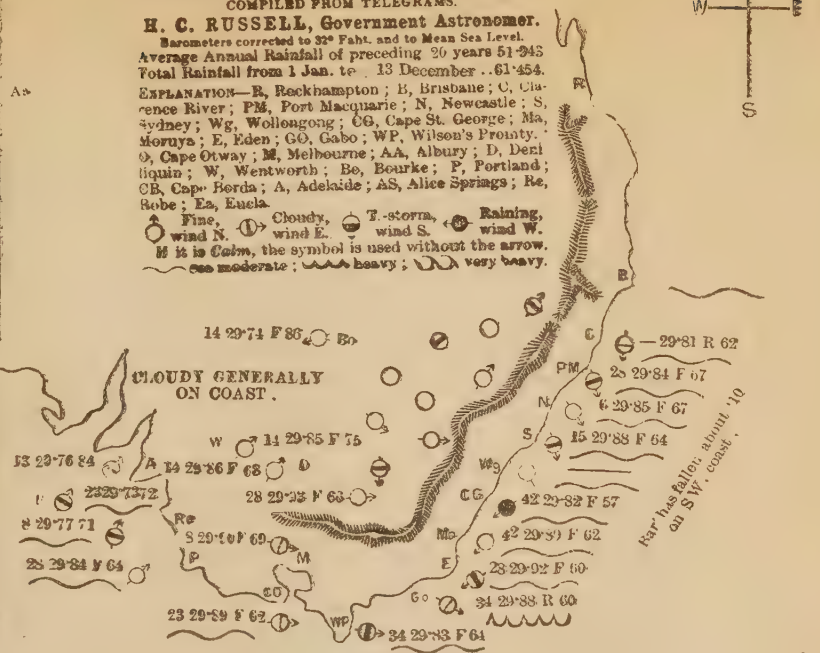
Total Rainfall from 1 Jan. to 13 December ..61·454.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.



Stations	W'th'r	Max	Min	Rain
Casino....	r	71	62	0·06
Tenterfi'ld	u	78	55	0
Grafton..	u	82	50	0
Inverell..	b	86	65	0
Bourke ..	b	100	65	0
Narrabri..	c	91	64	0
Armidale .	u	77	40	0
Bendemeer	b	82	54	0
Gunnedah	u	93	46	0
Coonab'an	c	..	53	0
P. Macqrie	u	73	60	0
Murr'undi	u	76	57	0
Cassilis ..	b	85	..	0
Mus'brook	b	79	59	0
Dubbo...	b	88	62	0
Mudgee ..	b	86	58	0
Maitland .	c	73	60	0
Newcastle	u	77	58	0·02
Orange ..	b	86	42	0
Bathurst..	b	76	51	0
MtVictoria	b	71	40	0
Forbes...	b	86	66	0
	Ea			
SYDNEY	u	71	56	0
Wentw'th	b	88	59	0
Young...	b	85	54	0
Woll'gong	b	79	57	0
Moss Vale	b	67	47	0
Euston...	b	76	40	0
Goulburn.	b	78	41	0
Wagga...	b	86	45	0
Cape Geo.	p	66	..	0
Queanb'an	b	83	44	0
Deniliquin	b	85	52	0
Albury...	b	90	50	0
Bodalla ..	c	74	47	0
Cooma...	c	72	42	0
Eden.....	u	73	56	0·03
Gabo Isld.	u	63	55	0·04

METEOROLOGICAL REPORTS—DECEMBER 15.

South Australia reports cloudy weather with rising barometers; hot N.N.E. wind at Echuca, temperature 89°; light W. winds, and smooth sea generally on coast. Victoria: Cloudy, with fresh westerly winds, rising barometers, and moderate sea; 0·020 inches of rain measured at Melbourne, Cape Otway, and Portland. New South Wales: Fine generally down S.W. and inland, except in the Upper Hunter and Bogan districts, where heavy thunderstorms and rain, with variable winds, prevail; on the coast generally the weather is cloudy, with falling barometers; and S. of Cape St. George the sea is heavy. Queensland.—No telegrams. 3 p.m. Observations.—Victoria: Melbourne, S., 13, fine, temperature 71°; Portland, S.W., 34, cloudy, sea smooth, temperature 67°; Cape Otway, W., 18, cloudy, sea moderate, temperature 61°; Wilson's Promontory, N.E., 18, cloudy, sea slight, temperature 71°. New South Wales: Wentworth, S.W., fine hot, temperature 74°; Deniliquin, S.S.E., 14, fine, temperature 83°; Albury, S.E., stormy, raining, temperature 76; Goulburn, S., dull, temperature 71°; Forbes, calm, cloudy, temperature 79°; Eden, no report; Moruya, E., 14, cloudy, like rain, heavy easterly sea, temperature 66°; Cape George, N., 28, cloudy, moderate sea, temperature 67°; Sydney, E.N.E., 8, dull, smooth sea, temperature 68°; Newcastle, S.S.W., raining, moderate sea, temperature 67°; Port Macquarie, S.S.W., 14, raining, smooth sea, temperature 72°; Clarence River, S.E., 14, thunderstorm, moderate sea, temperature 67. State of Rivers: Murrumbidgee, at Wagga, 4 feet 8 inches above summer level; at Hay, 11 feet above summer level; at Balranald, 15 feet 3 inches above summer level. Murray, at Euston, 20 feet above summer level. Darling, at Wentworth, 21 feet 2 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 28 feet 7 inches above summer level; at Wilcannia, 25 feet 6 inches above summer level.

WEATHER MAP.

15 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

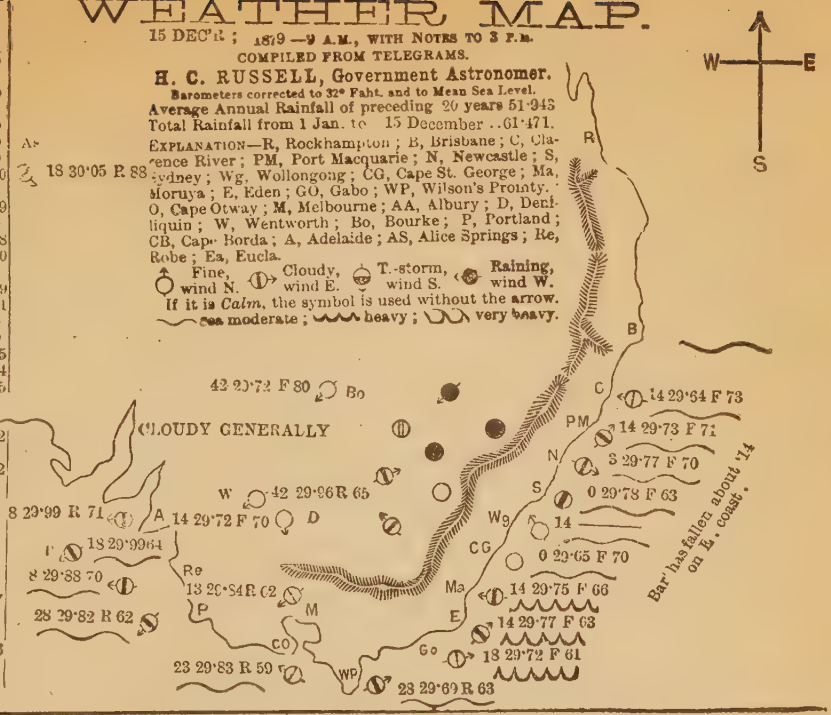
Total Rainfall from 1 Jan. to 15 December ..61·471.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.



Stations	W'th'r	Max	Min	Rain
Casino....	b	73	66	0
Tenterfi'ld	.	..	..	..
Grafton..	u	78	52	0
Inverell..	..	..	..	..
Bourke ..	b	104	61	0
Narrabri..	r	86	60	0
Armidale .	t	76	39	0
Bendemeer	q	84	46	0·50
Gunnedah	..	..	..	..
Coonab'an	q	..	53	0·49
P. Macqrie	u	73	59	0
Murr'undi	r	79	57	0·48
Cassilis ..	t	85	.	0·20
Mus'brook	r	90	54	0
Dubbo...	t	87	56	0·39
Mudgee ..	r	87	61	0·41
Maitland .	u	81	58	0
Newcastle	c	77	61	0
Orange ..	r	84	39	0·55
Bathurst..	r	81	48	0·24
MtVictoria	r	79	46	1·05
Forbes...	u	85	64	0
SYDNEY	u	71	58	0·02
Wentw'th	b	91	56	0
Young...	c	78	61	0·32
Woll'gong	b	71	57	0
Moss Vale	b	76	53	0
Euston...	b	86	45	0
Goulburn.	c	81	49	0
Wagga...	u	77	59	0
Cape Geo.	b	71	..	0
Queanb'an	b	84	53	0
Deniliquin	b	93	56	0·07
Albury...	..	..	.	..
Bodalla ..	u	78	52	0
Cooma...	u	85	59	0·16
Eden.....	u	67	55	0
Gabo Isld.	u	70	58	..

METEOROLOGICAL REPORTS—DECEMBER 16.

South Australia reports steady barometers with fine clear weather, sea rough at Cape Borda, no rain. Victoria: Cloudy generally, with rising barometers, fresh S.W. winds and smooth sea, no rain recorded. New South Wales: Fine generally, broken clouds at a few of the coast stations, and also inland to N.W., where heavy rains fell yesterday (see weather map); smooth sea on northern portion of coast line, rough south of Cape St. George; barometers rising rapidly, with strong S. wind all along coast. Queensland: No reports. 3 p.m. Observations.—Victoria: Melbourne, S., 18, fine, temperature 68·; Portland, E.S.E., 23, fine, smooth sea, temperature 65·; Cape Otway, S., 3, fine, smooth sea, temperature 69·; Wilson's Promontory, W., 18, cloudy, smooth sea, temperature 63. New South Wales: Deniliquin, S., 14, fine, temperature 83·; Albury, W., 14, fine, temperature 79·; Goulburn, S.E., fine, temperature 74·; Forbes, calm, fine, temperature 84·; Eden, S.E., 28, fine, heavy sea, temperature 61·; Cape George, E.S.E., 28, fine, little sea, temperature 68·; Sydney, S.E., 20, fine, smooth sea, temperature 69·; Newcastle, S., fresh, fine, little sea, temperature 72·; Port Macquarie, S., fine, moderate sea, temperature 71·; Clarence River, S., 42, cloudy, heavy sea, temperature 62·. State of Rivers: Murrumbidgee, at Wagga, 4 feet 7 inches above summer level; at Hay, 11 feet above summer level; at Balanald, 15 feet 3 inches above summer level. Murray, at Albury, 3 feet 10 inches above summer level; at Euston, 19 feet 10 inches above summer level. Darling, at Wentworth, 21 feet 2 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 28 feet 6 inches above summer level; at Wilcannia, 24 feet above summer level.

WEATHER MAP.

16 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 16 December ..61·511.

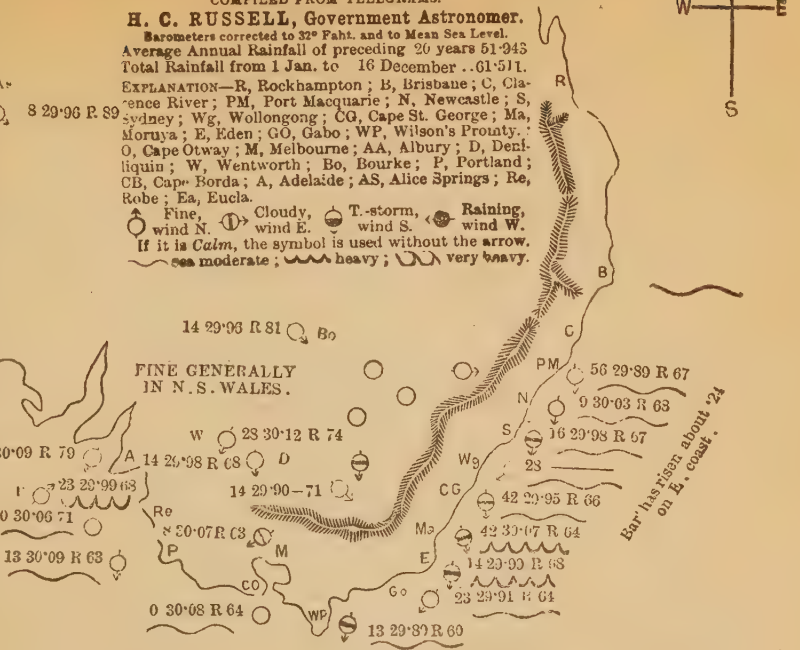
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	Weather	Max	Min	Rain
Casino....	..	..	..	..
Tenterfi'ld	..	..	..	..
Grafton..	..	..	..	..
Inverell..	c	84	56	0
Bourke ..	b	93	68	0
Narrabri..	b	71	62	0·60
Armidale .	..	..	..	..
Bendemeer	..	..	..	..
Gunnedah	b	82	50	0·37
Coonab'an	c	86	49	0·46
P. Macqrie	b	75	60	4·50
Murr'undi	u	67	56	1·02
Cassilis ..	u	89	.	0·90
Mus'brook	b	..	57	1·45
Dubbo...	b	78	62	0
Mudgee ..	b	74	58	0·46
Maitland .	c	73	61	1·80
Newcastle	b	74	67	0·91
Orange ..	b	70	34	0
Bathurst..	b	64	50	0·17
Mt Victoria	c	68	47	0·20
Forbes...	b	80	60	0
SYDNEY	u	69	61	0·04
Wentw'th	b	86	58	0
Young...	b	74	57	0
Woll'gong	b	75	59	0
Moss Vale	u	76	52	0·02
Euston...	b	76	45	0
Goulburn.	b	74	46	0
Wagga...	b	81	51	0
Cape Geo.	c	73	..	0
Queanb'an	..	..	..	..
Deniliquin	b	89	53	0
Albury...	b	90	52	0·05
Bodalia ..	p	76	52	0
Cooma...	u	74	43	0
Eden.....	c	73	56	0
Gabo Isld.	b	69	58	0



METEOROLOGICAL REPORTS—DECEMBER 17.

South Australia: Fine clear weather, with very high temperature and steady barometers throughout colony; wind light and variable, with rough sea on coast. Victoria: Fine; broken clouds at Wilson's Promontory; smooth sea round coast, with steady barometers and light variable winds. New South Wales: Fine generally, still cloudy on coast and up N.W.: fresh southerly wind, with rising barometers and smooth sea, on coast; fine and calm inland. Queensland: Weather fine, wind S.W., and blowing fresh. 3 p.m. Observations.—New South Wales: Wentworth, W., fine, hot, temperature 91°; Deniliquin, calm, fine, temperature 90·5; Albury, calm, fine, temperature 82°; Forbes, calm, fine, temperature 83°; Cape George, S., 2, fine, temperature 65°, sea smooth; Sydney, S., cloudy, temperature 65·6; Newcastle, S., strong and cloudy, temperature 72°, little sea; Port Macquarie, S., strong cloudy, temperature 71°, sea moderate; Clarence River, S., strong, fine, temperature 72°, bar moderate. State of Rivers: Murrumbidgee, at Wagga, 4 feet 8 inches above summer level. Murray, at Albury, 9 feet 10 inches above summer level. Darling, at Wentworth, 21 feet 1 inch above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 28 feet 5 inches above summer level; at Wilcannia, 23 feet above summer level.

WEATHER MAP.

17 DEC'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

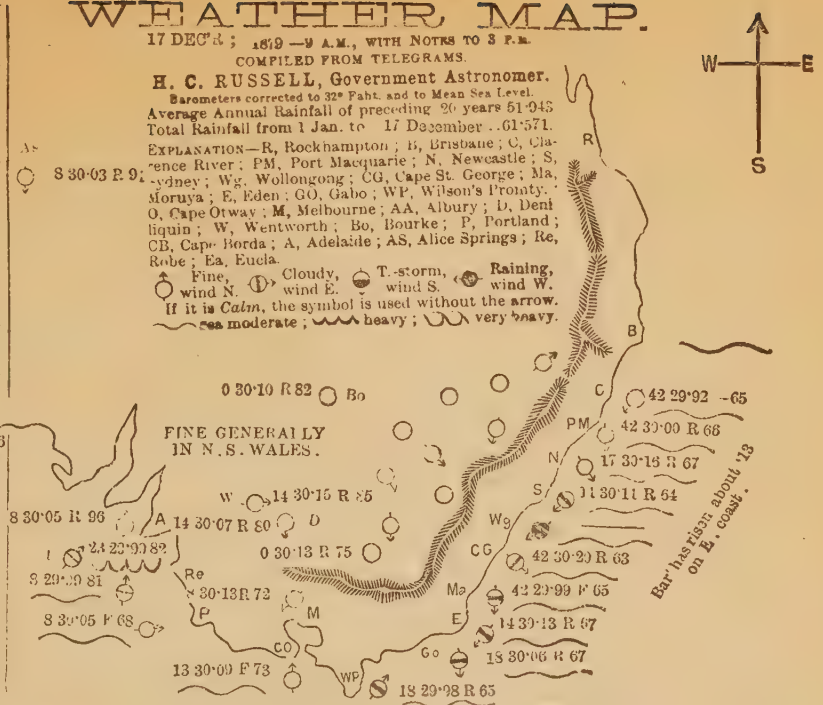
Total Rainfall from 1 Jan. to 17 December ..61·571.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	Wthr	Max	Min	Rain
Casino....	b	77	59	0
Tenterfi'ld	b	74	45	0
Grafton..	b	82	45	0
Inverell..	b	85	51	0
Bourke ..	b	96	48	0
Narrabri..	b	80	59	0
Armidale.	b	71	28	0
Bendemeer	b	75	49	0
Gunnedah	..	..	..	..
Coonab'an	b	108	56	0
P. Macqrie	u	72	60	0
Murr'undi	u	74	56	0
Cassilis ..	u	82	..	0
Mus'brook	u	83	53	0
Dubbo...	b	84	63	0
Mudgee ..	b	83	58	0
Maitland .	c	75	60	0
Newcastle	b	77	60	0
Orange ..	b	82	42	0
Bathurst..	b	79	51	0
MtVictoria	u	74	45	0
Forbes...	b	82	63	0
0 29·72 84				
SYDNEY	u	73	61	0·06
Wentw'th	b	95	65	0
Young...	b	82	59	0
Woll'gong	p	73	63	0
Moss Vale	b	72	53	0
Euston...	b	84	45	0
Goulburn.	b	82	54	0
Wagga ..	b	88	62	0
Cape Geo.	b	67	..	0
Queanb'an	b	87	50	0
Deniliquin	b	92	59	0
Albury ..	b	85	54	0
Bodalla ..	u	77	55	0
Cooma.	b	80	48	0
Eden..	u	75	57	0
Gabo Istd.	b	69	59	0

METEOROLOGICAL REPORTS—DECEMBER 16.

South Australia: Cloudy weather, with falling barometers a high temperature throughout, smooth sea on coast with light N. winds. Victoria: Cloudy throughout, with fresh N. winds, falling barometers, and smooth sea; no rain falling or measured. New South Wales: Fine clear weather at all stations, light broken clouds at places on coast; the barometers generally have not altered much since yesterday morning, and on the coast the sea is smooth, and the wind generally moderate from the south. Queensland: No telegrams. New South Wales: Wentworth, N., hot, temperature 98°; Deniliquin, S.W., 28, fine, hot, temperature 94°; Albury, calm, dull, temperature 82°; Goulburn, calm, fine, temperature 79°; Forbes, calm, dull, temperature 86°; Cape George, calm, fine, sea smooth, temperature 70°; Sydney, E.N.E., 8, fine, sea smooth, temperature 72°; Newcastle, S., 14, fine, sea smooth, temperature 73°; Clarence River, S.E., sea moderate. State of Rivers: Murrumbidgee—at Hay, 10 feet 6 inches above summer level; at Balranald, 15 feet above summer level. Murray—at Euston, 19 feet 3 inches above summer level. Darling—at Wentworth, 21 feet above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 28 feet 4 inches above summer level; at Wilcannia, 31 feet above summer level.

WEATHER MAP.

18 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 18 December ..61·571.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promnty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

Sea moderate ; heavy ; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	..	..	..	..
Teuterfi'ld	b	75	45	0
Grafton..	b	79	47	0
Inverell..	b	64	50	0
Bourke ..	b	100	68	0
Narrabri..	..	..	..	..
Armidale .	b	77	39	0
Bendemeer	b	79	49	0
Gunnedah	..	..	..	..
Coonab'an	b	108	48	0
P. Macqrie	u	72	61	0
Murr'undi	u	72	59	0
Cassilis ..	b	84	.	0
Mus'brook	b	83	56	0
Dubbo...	b	86	65	0
Mudgee ..	b	84	58	0
Maitland .	b	74	60	0
Newcastle	b	72	62	0
Orange ..	b	87	41	0
Bathurst..	b	81	49	0
MtVictoria	b	73	48	0
Forbes...	b	85	67	0
SYDNEY	c	69	61	0
Wentw'th	b	104	66	0
Young...	b	82	60	0
Woll'gong	b	70	60	0
Moss Vale	b	70	52	0
Euston...	b	72	60	0
Goulburn.	b	81	55	0
Wagga...	b	90	54	0
Cape Geo.	b	68	.	0
Queanb'an	b	100	53	0
Deniliquin	b	104	68	0
Albury...	b	100	57	0
Bodalla ..	b	79	57	0
Cooma...	b	81	47	0
Eden.....	b	73	54	0
Gabo Isld.	b	75	58	0

METEOROLOGICAL REPORTS—DECEMBER 19.

South Australia: Fine clear weather, with light S. winds, rising barometers, and smooth sea. Victoria: Fine, with broken clouds, strong S. wind on coast, with rather rough sea, and rising barometers. New South Wales: Cloudy on coast, and generally to E. of dividing range; fine and clear inland; barometers on coast very low, and still falling, with a strong southerly wind blowing, and a rising sea. Queensland: Fine and clear at Brisbane, with light S. wind and falling barometer. 3 p.m. Observations.—Victoria: Melbourne, S., 18, fine, temperature 64°; Cape Otway: W.S.W., 28, dull, sea moderate, temperature 58° Wilson's Promontory, W.S.W., 34, cloudy, slight sea, temperature 58°. New South Wales: Wentworth, SW., fine, temperature 81°; Albury, S.W., 14, fine, temperature 76°; Goulburn, S.W., fine, temperature 76°; Eden, S.W., 42, fine, sea light, temperature 67°; Moruya, S.S.E., 56, fine, sea rough, temperature 68°; Cape St. George, S.S.E., 56, heavy sea, temperature 64°; Sydney, S.S.E., 40, fine, little sea, temperature 68°; Newcastle, S., 40, cloudy, heavy sea, temperature 76°; Port Macquarie, S., 4, squally, moderate sea, temperature 73°; Clarence River, NW., 23, moderate sea, temperature 81°. State of Rivers: Murrumbidgee—at Hay, 11 feet above summer level; at Balranald, 15 feet 3 inches above summer level. Murray—at Echuca, 19 feet 10 inches above summer level. Darling—at Wentworth, 20 feet 11 inches above summer level; at Poonaroo, 24 feet above summer level; at Menindie, 28 feet 3 inches above summer level; at Wilcannia, 19 feet above summer level.

WEATHER MAP.

19 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

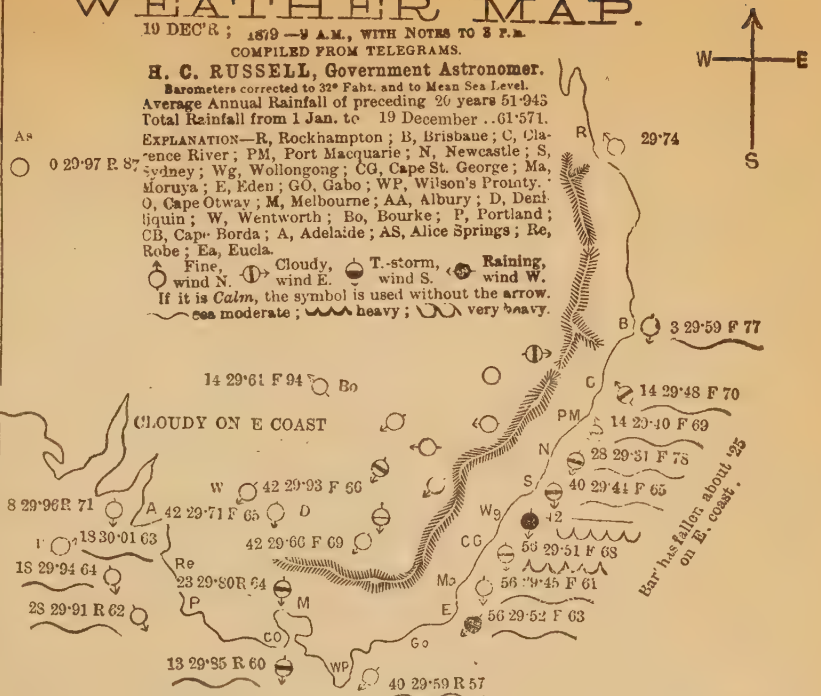
Total Rainfall from 1 Jan. to 19 December ..61·571.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promnty. O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.



Stations	W'th'r	Max.	Min.	Rain
Casino....	b	90	61	0
Tenterfi'ld	u	78	57	0
Grafton..	b	85	49	0
Invereil..	b	85	59	0
Bourke ..	b	105	76	0
Narrabri..	..	..	..	..
Armidale .	b	79	47	0
Bendemeer	b	80	57	0
Gunnedah	..	..	..	..
Coonab'an	b	..	63	0
P. Macqrie	u	73	60	0
Murr'undi	u	79	52	0
Cassilis ..	b	90	.	0
Mus'brook	u	83	63	0
Dubbo...	b	89	73	0
Mudgee ..	b	90	68	0
Maitland .	u	83	64	0
Newcastle	q	81	63	0
Orange ..	b	89	53	0
Bathurst..	b	84	67	0
MtVictoria	c	84	63	0
Forbes...	b	86	69	0
	Ea			
SYDNEY	u	75	65	0
Wentw'th	b	108	59	0
Young...	c	81	71	0
Woll'gong	q	77	69	0
Moss Vale	r	84	59	0·03
Euston...	b	86	45	0
Goulburn.	b	89	65	0
Wagga...	b	96	67	0
Cape Geo.	q	84	.	0
Queanb'an	b	96	59	0
Deniliquin	b	105	59	0
Albury...	b	97	61	0
Podalia ..	p	86	55	0·18
Cooma...	q	93	47	0·17
Eden.....	p	75	54	0·15
Gabo Isld.	..	..	..	0

METEOROLOGICAL REPORTS—DECEMBER 20.

South Australia: Fine clear weather, with light clouds, at places; smooth sea on S. coast, with falling barometers and light S. winds. Victoria: Melbourne, barometers steady, wind W.S.W., 18·62, cloudy; Portland, S.W., 28, showery, smooth sea; Cape Otway, W., 23, gloomy, moderate sea; Wilson's Promontory, W., 34, cloudy, rough sea. New South Wales: Fine, clear weather throughout colony; heavy sea at Newcastle and Cape St. George; moderate at remaining stations; light variable winds on coast, with rising barometers; fine and calm generally inland. Queensland: Fine, with rising barometer and light S.E. wind at Brisbane. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, no report; Portland, W.S.W., 34, smooth sea, 62°; Cape Otway, S.W., 18, gloomy, moderate sea, 60°; Wilson's Promontory: W., 34, cloudy, rough sea, 62°. New South Wales Wentworth, S.W., fine, temperature 82°; Albury, W., 10, fine, temperature 74°; Goulburn, W., fine, temperature 75°; Forbes, calm, fine, temperature 87°; Eden, W.S.W., fine, sea smooth, temperature 73°; Moruya, N.E., 20 fine, sea moderate, temperature 70°; Cape George, N.E., 40, sea moderate, temperature 67°; Sydney, N.E., 14, hazy; Newcastle, N.E.; 20, fine, little sea, temperature 74°; Port Macquarie, N.E., fine, sea moderate, temperature 74°; Clarence River, S.E., 14, fine, sea moderate, temperature, 74°. State of Rivers: Murrumbidgee—at Wagga, 4 feet 6 inches above summer level; at Hay, 9 feet above summer level; at Balranald, 15 feet 1 inch above summer level. Murray—at Albury, 3 feet 5 inches above summer level; at Euston, 15 feet above summer level.

WEATHER MAP.

20 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 20 December ..61·571.

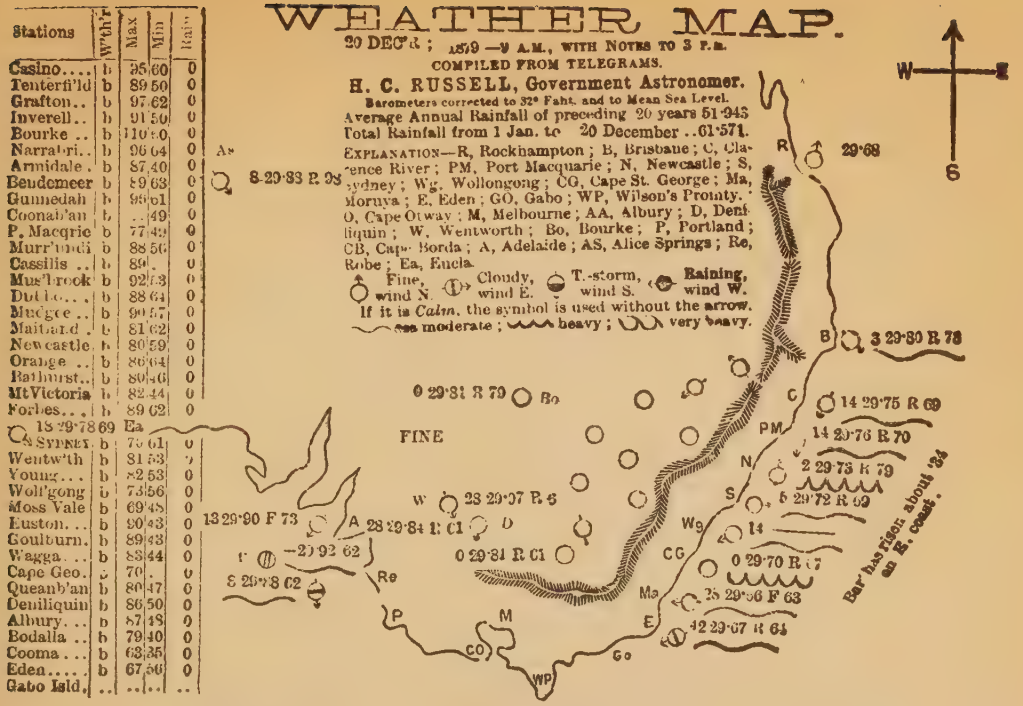
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	b	95	60	0
Tenterfi'ld	b	89	50	0
Grafton..	b	97	62	0
Inverell..	b	91	50	0
Bourke ..	b	110	0	0
Narrabri..	b	96	64	0
Armidale .	b	87	40	0
Beudemeer	b	89	63	0
Gunnedah	b	98	61	0
Coonab'an	b	..	49	0
P. Macqrie	b	77	49	0
Murr'undi	b	88	56	0
Cassilis ..	b	89	.	0
Mus'brook	b	92	53	0
Dubbo....	b	88	64	0
Mudgee ..	b	90	57	0
Maitland .	b	81	62	0
Newcastle.	b	80	59	0
Orange ..	b	86	64	0
Bathurst..	b	80	46	0
Mt Victoria	b	82	44	0
Forbes...	b	89	62	0
SYDNEY	b	75	61	0
Wentw'th	b	81	53	0
Young...	b	82	53	0
Woll'gong	b	73	56	0
Moss Vale	b	69	48	0
Euston...	b	90	43	0
Goulburn.	b	89	43	0
Wagga...	b	88	44	0
Cape Geo.	b	70	.	0
Queanb'an	b	80	47	0
Deniliquin	b	86	50	0
Albury...	b	87	48	0
Bodalla ..	b	79	40	0
Cooma...	b	63	35	0
Eden.....	b	67	56	0
Gabo Isld.	..	..	..	..



METEOROLOGICAL REPORTS—DECEMBER 22.

South Australia reports fine weather generally, cloudy sky at Cape Borda and Eucla, light S.E. winds with steady barometers and smooth sea on S. coast; rain at Adelaide 0·29, Eucla 0.01, and Robe 0·32. Victoria: Cloudy generally, with fresh S.W. winds, steady barometers and moderate sea; showery in early morning at Wilson's Promontory, measuring 0·04. New South Wales: Fine generally at inland stations to W. and S.W. of Sydney, also on coast N. of Newcastle; raining, with thunderstorms and stormy weather generally up N.W., near Tamworth, Armidale, Gunnedah, and Cassilis, and cloudy on coast S. of Sydney; smooth sea generally, with light southerly wind and steady barometers on coast. (For rain measurements see weather map). Queensland: Brisbane, fine, with light N.E. breeze and steady barometers. 3 p.m. Observations.—Victoria: No 3 p.m. telegrams. New South Wales: Wentworth, S.S.E., fine, temperature 73°; Deniliquin, S., 28, fine, temperature 77°; Albury, W., 28, fine, temperature 72°; Goulburn, W., fine, temperature 76°; Forbes, calm, fine, temperature 63°; Eden, no report; Moruya, no report; Cape George, S.E., fine, little sea, temperature 63°; Sydney, S.S.E., 8, dull, sea smooth, temperature 64°; Newcastle, S.E., 14, cloudy, sea smooth, temperature 71°; Port Macquarie, E., 14, cloudy, sea smooth, temperature 77°; Clarence River, S.E., dull, sea smooth, temperature, 74°. State of Rivers: Murrumbidgee—at Wagga, 3 feet 3 inches above summer level; at Hay, 10 feet above summer level; at Balranald, 15 feet above summer level. Murray—at Albury, 3 feet 3 inches above summer level; at Euston, 18 feet 11 inches above summer level. Darling—at Wentworth, 20 feet 10 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 27 feet 10 inches above summer level; at Wilcannia, 8 feet above summer level.

WEATHER MAP.

22 DEC'R; 1879—9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 23 December ..01·573.

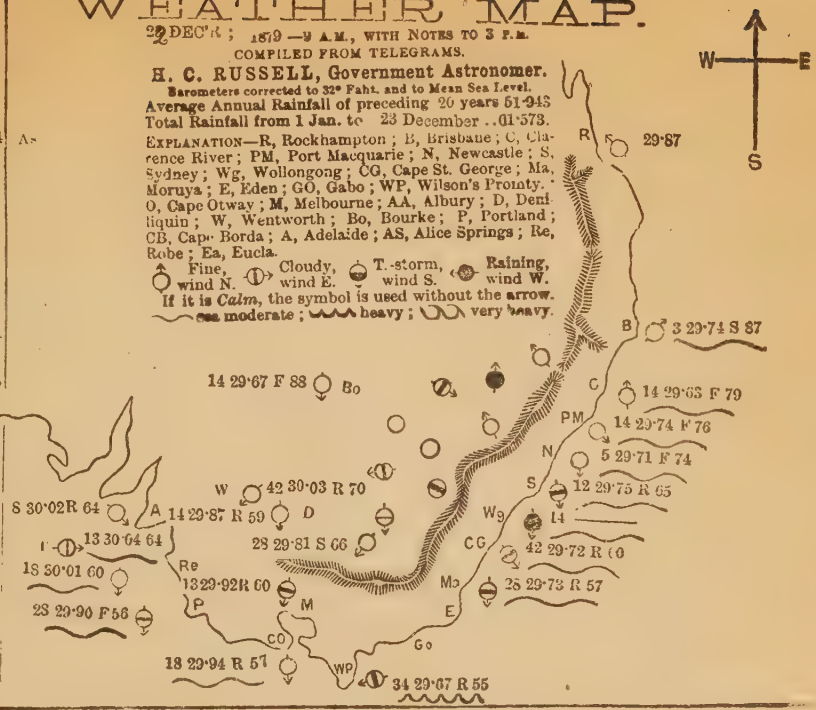
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	b	94	79	0
Tenterfi'ld	b	86	53	0
Grafton..	b	93	64	0
Inverell..	r	84	67	0
Bourke ..	b	108	73	0
Narrabri..	c	94	75	0·04
Armidale .	t	89	44	0
Bendemeer	b	82	70	0
Gunnedah	t	99	60	0
Coonab'an	t	78	65	0
P. Macqrie	b	81	69	0
Murr'undi	u	85	57	0
Cassilis ..	t	97	.	0
Mus'brook	b	104	76	0
Dubbo...	b	92	60	0
Mudgee ..	b	91	67	0
Maitland .	b	95	65	0
Newcastle	b	93	64	0·01
Orange ..	b	83	43	0
Bathurst..	b	87	51	0
MtVictoria	b	86	53	0·05
Forbes...	b	88	68	0
S 30·02 73 Ea				
SYDNEY	u	78	64	0
Wentw'th	b	84	53	0
Young...	c	88	62	0·17
Woll'gong	p	78	60	0
Moss Vale	c	85	55	0·14
Euston...	b	68	45	0
Goulburn.	b	88	57	0·27
Wagga...	u	92	58	0
Cape Geo.	c	70	.	0·17
Queanb'an	u	86	56	0·07
Deniliquin	b	83	50	0
Albury...	b	86	49	0·20
Bodalla ..	p	83	52	0·51
Cooma...	c	83	45	0
Eden.....	..	.	..	..
Gabo Isld.	.	..	..	..



METEOROLOGICAL REPORTS—DECEMBER 23.

South Australia reports fine weather generally, with light broken clouds, smooth sea, rising barometer, and light S.E. winds on coast; no rain. Victoria: Cloudy, with fresh southerly winds, rising barometer, and smooth sea; no reports from Wilson's Promontory. New South Wales: Cloudy weather generally E. of Dividing Range, light misty rain on coast N. of Eden; fine far inland, at Bourke, Forbes, Wentworth, Euston, Albury, and generally to W. of mountains. On coast the sea is smooth, the wind moderate from S.E., and the barometers rising. (For rainfall see weather map.) 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.S.W., 18, cloudy, fine, temperature 74°; Portland, S.S.E., 28, fine, smooth sea, temperature 62°; Cape Otway, S., 8, cloudy, moderate, temperature 63°; Wilson's Promontory, W.S.W., 23, cloudy, moderate, temperature 58°. New South Wales: Wentworth, S., fine, temperature 77°; Albury, W., 8, fine, temperature 71°; Goulburn, N.E., fine, temperature 66°; Forbes, calm, fine, temperature 77°; Sydney, S.E. misty rain, sea smooth, temperature 61°; Newcastle, E.S.E., dull, sea smooth, temperature 69°; Port Macquarie, S.E., 14, raining, sea moderate, temperature 75°; Clarence River, S.E., 28, fine, sea smooth, temperature, 78°. State of Rivers: Murrumbidgee—at Hay, 7 feet 9 inches above summer level; at Balranald, 14 feet 10 inches above summer level. Murray—at Albury, 3 feet 1 inch above summer level; at Euston, 18 feet 10 inches above summer level. Darling—at Wentworth, 20 feet 6 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 27 feet 6 inches above summer level; at Wilcannia, 7 feet 6 inches above summer level.

WEATHER MAP.

23 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 23 December ..61·583.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Prontry. O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Ro, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

...ano....	..	..	..	..
...	..	..	..	..
...ton .	u	85	68	0·30
...erall..	b	87	65	0·80
...ne ..	b	102	61	0
...ndle..	b	97	57	0
Armidale .	u	96	47	0·32
Bendemeer	b	93	69	0
...	c	106	59	0
...	b	105	55	0
P. Macqrie	r	72	65	0·60
Marr'undi	u	88	57	0
Cassilis ..	u	97	.	0
Mus'brook	u	91	56	0
Dubbo...	b	89	64	0
Mudgee ..	c	92	53	0
Maitland .	u	82	64	0
Newcastle	u	80	59	0
Orange ..	u	83	50	0
Bathurst..	u	85	53	0
Mt Victoria	u	82	47	0·35
Forbes...	b	86	68	0
SYDNEY	u	68	59	0·01
Wentw'th	b	78	51	0
Young...	b	80	54	0
Wolf'gong	c	68	56	0
Moss Vale	u	73	49	0·03
Euston...	b	79	35	0
Goulburn.	u	83	49	0·01
Wagga...	..	..	.	..
Cape Geo.	u	66	.	0·04
Queanb'an	c	85	54	0
Deniliquin	b	70	47	0
Albury...	b	82	44	0
Bodalla ..	r	77	50	0·32
Cooma...	c	71	54	0
Eden....	c	72	53	0
...ro Isld	b	61	51	0

METEOROLOGICAL REPORTS—DECEMBER 24.

South Australia: Fine generally, smooth sea, with steady barometers and light E. winds on south coast and inland; rains and thunderstorms on north coast. Victoria: Fine, with clouded sky, light S.E. winds, rising barometers, and smooth sea: no rain. New South Wales: Cloudy and dull generally, except at Bourke (in the Darling district) and down S.W. in Riverina; light easterly and S.W. winds prevail on coast, with a rising barometer and smooth sea. 3 p.m. Observations.—Victoria, barometers steady: Melbourne, S.W., 13, fine, temperature 66°; Portland, S.E., 23, fine, moderate sea, temperature 62°; Cape Otway, S.E., 8, fine, smooth sea, temperature 66°; Wilson's Promontory, E., 18, fine, smooth sea, temperature 69°. New South Wales: Denilquin, calm, fine, temperature 75°; Albury, calm, cloudy, temperature 73°; Goulburn, E., cloudy, temperature 63°; Forbes, calm, cloudy, temperature 80°; Eden, E., 14, cloudy, sea moderate, temperature 63°; Moruya, S.E., 20, thick, raining, easterly swell, temperature 57°; Cape George, E.N.E., 20, fine, sea smooth, temperature 63°; Sydney, S.E., 14, cloudy, sea smooth, temperature 64°; Newcastle, S.S.E., strong, cloudy, little sea; Clarence River, S., stormy, sea moderate, temperature, 72°. State of Rivers: Murrumbidgee—at Wagga, 2 feet 6 inches above summer level; Hay, 7 feet 5 inches above summer level; at Balranald, 14 feet above summer level. Murray—at Albury, 3 feet above summer level; at Easton, 18 feet 2 inches above summer level. Darling—at Wentworth, 20 feet 5 inches above summer level; at Pooncarie, 24 feet above summer level; at Menindie, 27 feet 2 inches above summer level; at Wilcannia, 6 feet 17 inches above summer level.

WEATHER MAP.

24 DEC'R; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 24 December ..61·718.

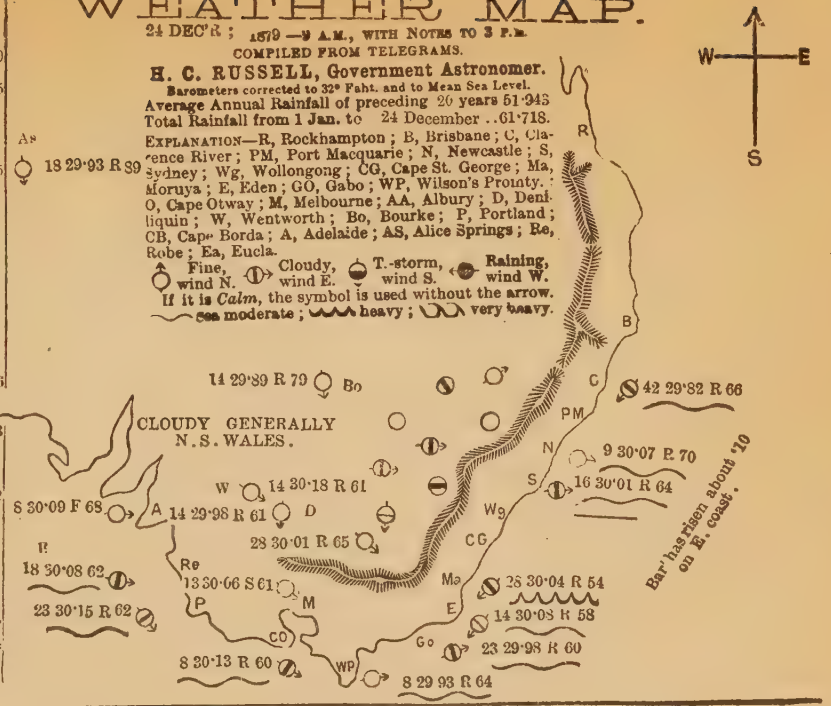
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.

Stations	W'th'r	Max	Min	Rain
Casino....	c	80	58	0·40
Tenterfi'ld	..	..	..	..
Grafton..	m	87	67	0·25
Inverell..	b	85	63	0
Bourke ..	b	99	61	0
Narrabri..	c	96	62	0
Armidale .	u	83	48	0
Bendemeer	b	83	64	0·45
Gunnedah	u	97	5	0
Coonab'an	b	91	52	0
P. Macqrie	..	..	..	..
Murr'undi	u	71	55	0
Cassilis ..	u	69	.	0
Mus'brook	b	69	59	0
Dubbo...	b	86	63	0
Mudgee ..	u	82	61	0
Maitland .	u	71	64	0
Newcastle	u	85	60	0
Orange ..	u	82	41	0
Bathurst..	u	73	55	0
MtVictoria	u	58	48	0·56
Forbes...	b	82	66	0
SYDNEY	u	67	59	0·13
Wentw'th	b	79	51	0
Young...	u	80	56	0
Woll'gong	..	.	.	..
Moss Vale	r	60	50	0·12
Euston...	b	81	40	0
Goulburn.	u	67	49	0
Wagga...	u	84	57	0
Cape Geo.	..	..	..	..
Queanb'an	c	74	53	0
Deniliquin	b	78	47	0
Albury...	b	85	50	0
Bodalla ..	p	69	50	0·07
Cooma...	c	73	43	0·04
Eden.....	b	72	52	0
Gabo Isld.	b	64	55	0



METEOROLOGICAL REPORTS—DECEMBER 26.

South Australia: Barometers falling generally, with light northerly hot winds coming on. Victoria: No telegrams. New South Wales: Cloudy generally, chiefly inland to S. and W.; raining at Wentworth; at Maitland ·60 rain fell up to 9 a.m., and ·40 at Mount Victoria. Direction of wind variable throughout the colony. Queensland: No telegrams. Victoria and New South Wales: No 3 p.m. telegrams.

WEATHER MAP.

25 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

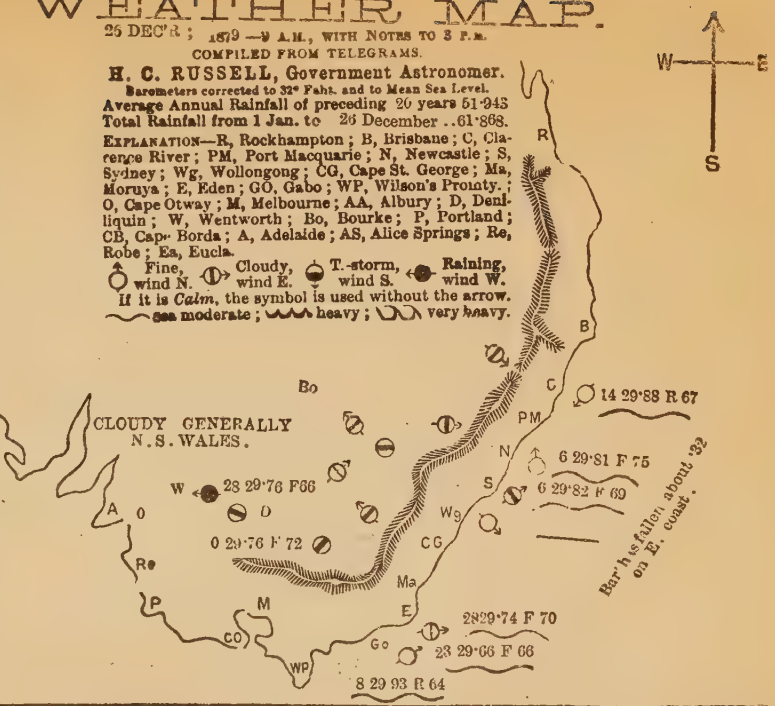
Total Rainfall from 1 Jan. to 26 December ..61·868.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.



Stations	Wth'r	Max	Min	Rain
Casino....	b	..	..	..
Tenterfi'ld	u	69	65	0
Grafton..	b	77	69	0
Inverell..	b	..	..	0
Bourke ..	b	.	..	0
Narrabri..	c	87	64	0
Armidale .	u	79	40	0
Bendemeer	b	77	63	0
Gunnedah	b	..	..	0
Coonab'an	b	.	..	0
P. Macqrie	..	..	..	..
Murr'undi	b	79	61	0
Cassilis ..	b	83	.	0
Mus'brook	b	88	58	0
Dubbo...	b	.	..	0
Mudgee ..	u	83	59	0
Maitland .	c	77	61	0·60
Newcastle	b	83	64	0
Orange ..	u	80	39	0
Bathurst..	b	.	..	0
MtVictoria	b	74	44	0
Forbes...	o	86	71	0·40
[illegible]	69	a		
[illegible]	o	71	59	0
[illegible]	r	9[illegible]	63	0
Young...	u	79	62	0
Woll'gong	.	69	57	..
Moss Vale	b	..	..	0
Euston...	b	.	..	0
Goulburn.	b	74	51	0
Wagga...	g	88	51	0
Cape Geo.	..	..	..	..
Queanb'an	b	..	.	0
Deniliquin	g	91	57	0
Albury...	g	89	54	0
Bodalla ..	b	..	.	0
Cooma...	c	79	47	0
Eden.....	c	72	60	0
Gabo Isld.	b	69	60	0

As

METEOROLOGICAL REPORTS—DECEMBER 27.

South Australia: Barometers low and falling; rain 0·97 at Cape Borda, 0·51 at Eucla; weather gloomy and threatening on the coast; wind S.W. at Cape Borda. Victoria: No telegrams from Melbourne or Wilson's Promontory; cloudy weather at Portland and Cape Otway, with smooth sea; wind between E. and S., blowing fresh; the barometer at Portland shows a rise, while it shows a fall at Cape Otway. New South Wales: Cloudy generally, with light wind between N.E. and N.W.; raining at Inverell; at Grafton 0·7 of an inch of rain fell; Inverell, 1·05; Armidale, ·47; Muswellbrook, ·55; West Maitland, 1·25; Newcastle, ·24; Orange, ·20; Bathurst, ·05; Mount Victoria, ·25; Bendemeer, 2·25; Moss Vale, ·72; Wollongong, ·49; Goulburn, ·36; Cape St. George, ·47; Queanbeyan, ·07; Bodalla, ·25; Cooma, ·14; Eden, ·11, barometer still falling; smooth sea generally on E. coast. 3. p.m. Observation.—Victoria: Barometers very low and falling; Portland, barometer 29·37, wind W., 18, cloudy, smooth sea, temperature 67·0; Cape Otway, barometer 29·39, wind W., 18, cloudy, smooth sea, temperature 69·; Wilson's Promontory, barometer 29·25, wind W., 18, gloomy, squally, sea smooth, temperature 64·. New South Wales: Wentworth, no report; Albury, calm, raining, temperature 72 ; Goulburn, N.W., strong, like storm, temperature 76·; Forbes, N.W., cloudy, temperature 79·; Eden, N.E., 20, cloudy, like rain, little sea from N.E., temperature 74·; Moruya, no report; Cape George, N., 20, cloudy, like storm, smooth sea, temperature 74·; Sydney, N.E., thunderstorm, sea smooth, temperature 77·; Newcastle, N.E., fresh, hazy, sea smooth, temperature 81·; Port Macquarie, no report; Clarence River, no report. Sydney, 8.30 p.m., a violent thunderstorm came from N.W., the lightning was almost incessant for about ten minutes, and during the passage of the storm, *i.e.*, twenty minutes the barometer rose 0·10. State of Rivers: Murray—at Albury, 2 feet 9 inches above summer level.

WEATHER MAP.

27 DEC'R; 1879 — 9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

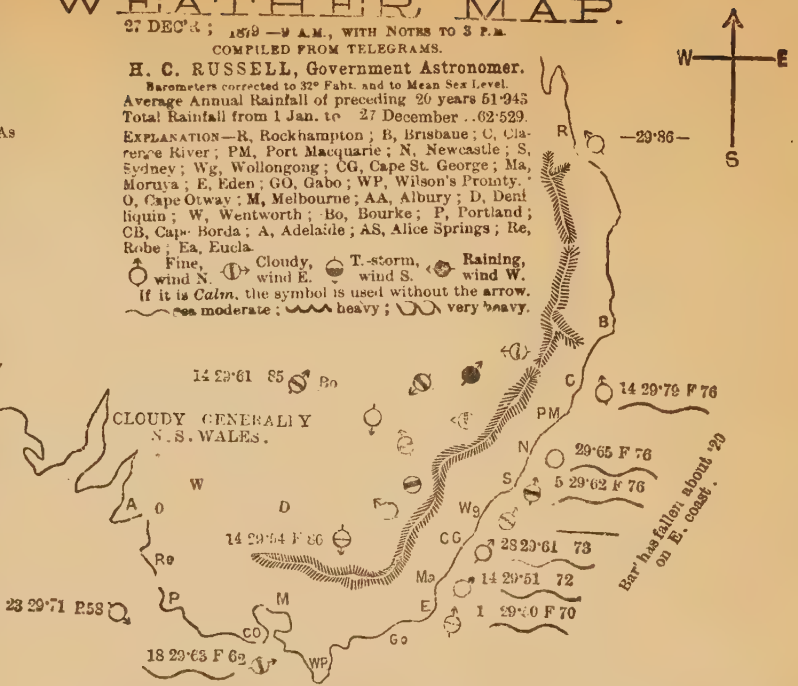
Total Rainfall from 1 Jan. to 27 December . . 62·529.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; Wg, Wollongong; CG, Cape St. George; Ma, Moruya; E, Eden; GO, Gabo; WP, Wilson's Promty. O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; Bo, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; Re, Robe; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate; heavy; very heavy.



Stations	Weath'r	Max	Min	Rain
Casino....	b	..	..	..
Tenterfield	g	74	72	0
Grafton..	b	82	70	0·07
Inverell..	r	85	62	1·06
Bourke ..	g	102	67	0
Narrabri..	o	..	..	0
Armidale .	g	78	45	0·47
Bendemeer	g	82	56	2·2
Gunnedah	o	..	..	0
Coonab'an	b	..	..	0
P. Macqrie	..	..	..	..
Murr'umbi	o	82	67	0
Cassilis ..	u	94	..	0
Mus'brook	b	95	63	0·55
Dubbo...	c	85	71	0
Mudgee ..	u	85	58	0
Maitland .	b	87	76	1·24
Newcastle	b	83	66	0·24
Orange ..	c	82	5[illegible]	0·20
Bathurst..	b	75	60	0·05
Mt Victoria	g	79	57	0·20
Forbes...	g	83	69	0
SYDNEY	o	76	60	0·06
Wentwth	[illegible]	..	..	0
Young...	g	80	56	[illegible]
Woll'gong	c	75	59	0·49
Moss Vale	b	75	58	0·72
Euston...	b	..	..	0
Goulburn.	b	80	51	0·35
Wagga ..	c	90	70	0
Cape Geo.	..	76	..	0·47
Queanb'an	b	78	57	0·07
Deniliquin	b	..	..	0
Albury...	c	82	58	0
Bodalla ..	b	82	50	0·25
Cooma...	b	74	55	0·14
Eden.....	u	73	60	0·11
Gabo Isld.	b	..	..	0

METEOROLOGICAL REPORTS—DECEMBER 29.

South Australia: Fine generally throughout since last report, heavy rain in tropics, 2·61 inches fell at Port Darwin and still showery, and 1·11 inches at Adelaide. Victoria: Cloudy at all the stations, wind generally between S. and W., barometers rising, sea a Wilson's Promontory rather rough. New South Wales: Fine throughout colony with wind generally between S. and W. rain fell at nearly all the stations, the greatest amount being at Gunnedah, viz., 3.37 inches; sea generally smooth along E. coast. Queensland: Fine at Brisbane with smooth sea at Cape Moreton 3 p.m. Observations.—Victoria: Melbourne, no telegrams. New South Wales: Wentworth, fine, clear, E. light, temperature 77°; Albury, calm, fine, little sea, temperature 69°; Forbes, calm, fine, temperature 68°; Moruya, E., fresh, fine, moderate sea, temperature 68.5°; Sydney, S.S.E., fresh, fine, little sea, temperature 68.3°; Port Macquarie, S., strong, fine, smooth sea, temperature 89.8°; Deniliquin, S., fine, temperature 70.; Goulburn, calm, fine, temperature 67°; Eden, S.W. light, little sea, temperature 73°; Cape George, S.S.E., fresh, fine, little sea, temperature 67°; Newcastle, S.S.E., fresh, fine, little sea, temperature 70° State of Rivers: Murrumbidgee—at Hay, 5 feet 6 inches above summer level; Murray—at Euston, 16 feet 9 inches above summer level; Darling—at Wentworth, 14 feet 8 inches above summer level.

WEATHER MAP.

29 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

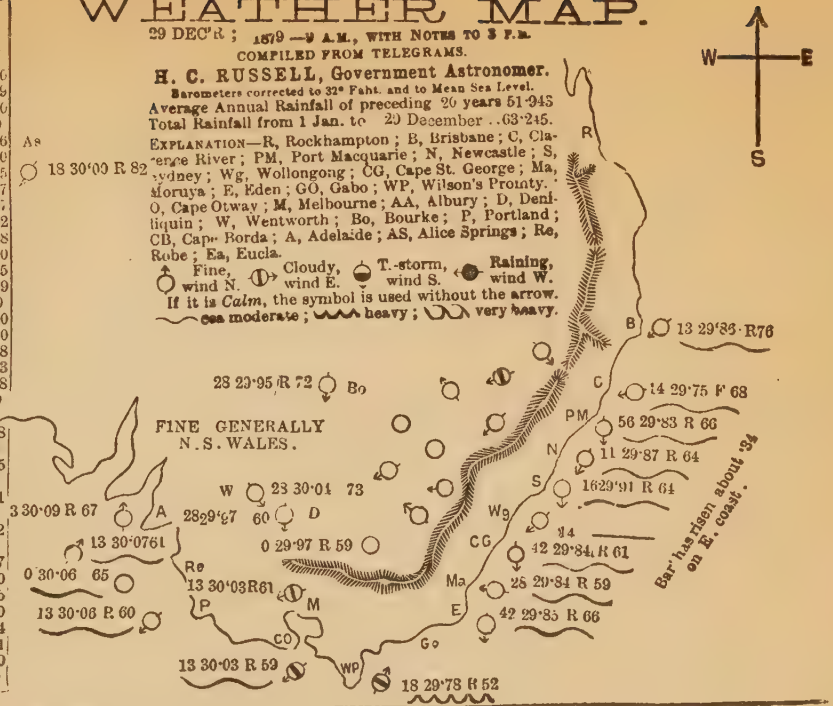
Total Rainfall from 1 Jan. to 29 December ..63·245.

EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.



Stations	Weather	Max.	Min.	Rain.
Casino....	b	..	..	..
Emerald	b	83	58	1·40
Grafton..	b	79	58	0·69
Inverell..	b	88	52	1·50
Bourke ..	b	91	55	0
Narrabri..	o	90	61	2·36
Armidale .	b	69	34	2·40
Beudemeer	b	83	43	2·45
Gunnedah	c	87	45	3 37
Coonab'an	b	68	50	0·67
P. Macqrie	..	79	57	0·32
Murr'undi	b	85	55	0·38
Cassilis ..	b	74	.	0·10
Mus'brook	b	86	60	0·45
Dubbo.. .	b	88	56	0·19
Mudgee ..	b	72	50	0
Maitland .	b	93	54	0·40
Newcastle	b	75	58	0·40
Orange ..	b	81	49	0·98
Bathurst..	b	83	44	0·43
Mt Victoria	b	79	38	0·08
Forbes...	b	75	62	0
SYDNEY	b	74	56	0·28
Wentw'th	o	76	43	0
Young...	b	82	50	0·65
Woll'gong	b	79	55	0
Moss Vale	b	69	46	0·21
Euston...	b	69	40	0
Goulburn.	b	70	40	0·42
Wagga ..	b	78	48	0
Cape Geo.	..	64	.	0·77
Queanb'an	b	86	42	0·40
Deniliquin	b	85	44	0·15
Albury...	b	85	41	0·30
Bodalla ..	b	84	44	0·54
Cooma...	c	72	37	0·11
Eden.....	b	78	54	0·20
Gabo Isld.	o	..	..	0

METEOROLOGICAL REPORTS—DECEMBER 30.

South Australia: Fine clear weather, barometers rising slowly, smooth sea on coast; wind W. at Eucla, S. at Robe, and calm at Adelaide; cloudy, with light S.E. wind, at Alice Springs. Victoria: Fine weather with light broken clouds, smooth sea; light S.W. winds and calm, and rising barometers on coast. New South Wales: Fine, with light variable winds and calms, and rising barometers all over the colony, without rain; clear weather with light northerly winds on coast. Queensland: Smooth sea at Brisbane Heads. 3 p.m Observations —Victoria: Melbourne, S., 13, cloudy, temperature 68°; Portland, S., 23, fine, sea smooth, temperature 65°; Cape Otway, S., 3, fine, smooth sea, temperature 66°; Wilson's Promontory, W.S.W., 18, squally, slight sea, temperature 61°. New South Wales: Wentworth, N.W., hot, temperature 83°; Deniliquin, S.W., 14, fine, temperature 69°; Albury, W., 14, fine, temperature 74°: Goulburn, calm, fine, temperature 74°; Eden, N.E., 14, fine, sea smooth, temperature 68°; Moruya, N.E., strong, fine, sea moderate, temperature 71°; Cape George, N.E., fine, little sea, temperature 70°; Sydney, N.E., 8, fine, sea smooth, temperature 70°; Newcastle, N.E., fine, little sea, temperature 75°; Port Macquarie, S.E., 14, fine, sea smooth, temperature 70°; Clarence River, S.E., fine, smooth sea, temperature 75°. State of Rivers: Murrumbidgee—at Wagga, 4 feet above summer level; at Hay, 4 feet 9 inches above summer level; at Balranald, 14 feet 6 inches above summer level. Murray—at Albury, 3 feet 6 inches above summer level; at Euston, 16 feet 9 inches above summer level. Darling—at Wentworth, 19 feet 4 inches above summer level; at Pooncarie, 23 feet 10 inches above summer level; at Menindi, 26 feet above summer level; at Wilcannia, 4 feet 6 inches above summer level.

WEATHER MAP.

30 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·943

Total Rainfall from 1 Jan. to 30 December ..63·245.

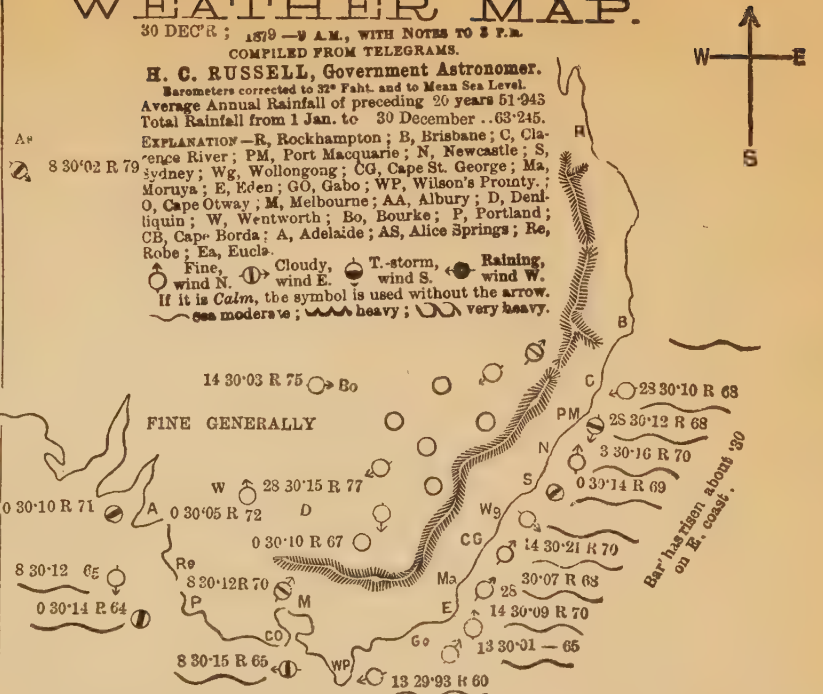
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Prounty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	With'r	Max	Min	Rain
Casino....	b	81	60	0
Tenterfi'ld	u	84	60	0
Grafton..	b	84	61	0
Inverell..	b	88	50	0
Bourke ..	b	87	58	0
Narrabri..	b	76	58	0
Armidale .	c	70	36	0
Bendemeer	b	71	50	0
Gunnedah	b	83	51	0
Coonab'an	b	99	45	0
P. Macqrie	u	71	56	0
Murr'undi	u	72	53	0
Cassilis ..	b	82	.	0
Mus'brook	b	89	55	0
Dubbo...	b	78	59	0
Mudgee ..	b	79	56	0
Maitland .	b	77	58	0
Newcastle	b	78	57	0
Orange ..	b	86	36	0
Bathurst..	b	74	46	0
MtVictoria	b	78	43	0
Forbes...	b	81	61	0
18 30·13 58				
SYDNEY	c	70	60	0
Wentw'th	b	81	55	0
Young...	b	70	54	0
Woll'gong	b	71	59	0
Moss Vale	b	68	52	0
Euston...	b	76	45	0
Goulburn.	b	76	46	0
Wagga...	b	76	53	0
Cape Geo.	c	71	.	0
Queanb'an	b	78	48	0
Deniliquin	b	79	49	0
Albury...	b	83	47	0
Bodalla ..	b	77	52	0
Cooma...	b	71	40	0
Eden.....	b	75	54	0
Gabo Isld.	b	68	60	0



METEOROLOGICAL REPORTS—DECEMBER 31.

South Australia reports fine clear weather generally, but rainy in tropics; light S.E. winds on S. coast, with rising barometers and smooth sea. Victoria: Fine, clear weather, light variable winds, smooth sea, and rising barometers on coast; light clouds at Melbourne; no rain. New South Wales: Fine generally; light broken clouds on coast S. of Sydney, but no rainy weather at any station; light sea breezes with rising barometers and smooth sea on coast. Queensland: Brisbane, fine, with light S. wind, rising barometer, and smooth sea. 3 p.m. Observations: Victoria, Melbourne, S.W., 13, fine, temperature 66°; Portland, no report; Cape Otway, S.E., 3, fine, sea smooth, temperature 70°; Wilson's Promontory, W.S.W., 18, fine, sea smooth, temperature 64°. New South Wales: Wentworth, N.W., fine, hot, temperature 69°; Deniliquin, S., 14, fine, temperature 83°; Albury, N., 14, fine, temperature 79°: Goulburn, N.E., fine, temperature 78°; Forbes, calm, fine, temperature 77°; Eden, E.S.E., 28, fine, sea light, temperature 66°; Moruya, N.E., 42, fine, sea moderate, temperature 72°; Cape George, N.E., 28, fine, sea smooth, temperature 70°; Sydney, N.E., 8, cloudy, temperature 70°; Newcastle, E., 14, dull sea smooth, temperature 80°; Port Macquarie, E., 14, fine, sea smooth, temperature [illegible], Clarence River, no report. State of Rivers: Murrumbidgee—at Wagga, 4 feet 8 inches above summer level; at Hay, 4 feet 10 inches above summer level; at Balranald, 17 feet above summer level. Murray—at Albury, 4 feet 7 inches above summer level; at Euston, 16 feet 9 inches above summer level. D[illegible]—at Wentworth, 19 feet 6 inches above summer level; at Pooncarie, [illegible] inches above summer level; at Menindee, [illegible] above summer level; at Wilcannia, 4 feet above summer level.

WEATHER MAP.

31 DEC'R ; 1879 —9 A.M., WITH NOTES TO 3 P.M.

COMPILED FROM TELEGRAMS.

H. C. RUSSELL, Government Astronomer.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of preceding 20 years 51·945

Total Rainfall from 1 Jan. to 31 December ..63·246.

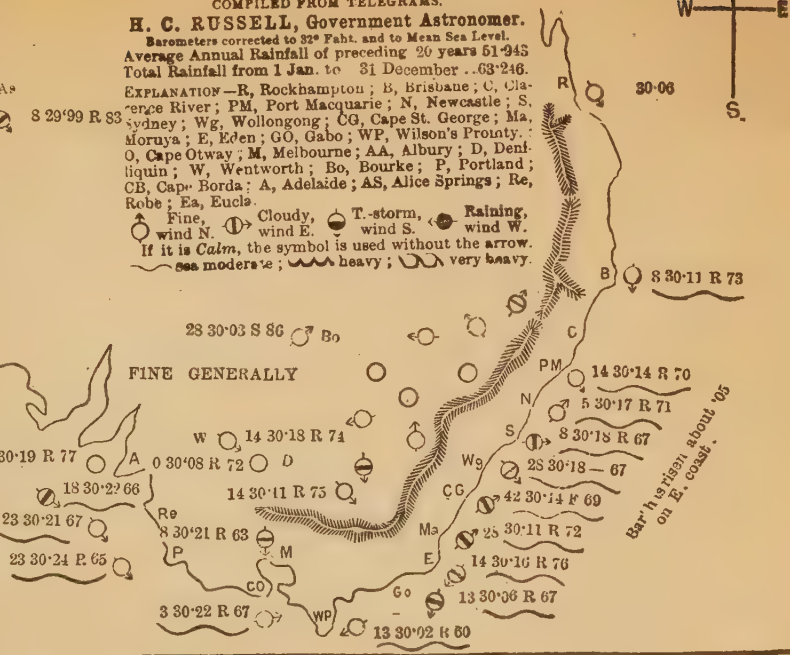
EXPLANATION—R, Rockhampton ; B, Brisbane ; C, Clarence River ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; Wg, Wollongong ; CG, Cape St. George ; Ma, Moruya ; E, Eden ; GO, Gabo ; WP, Wilson's Promty. ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; Bo, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; Re, Robe ; Ea, Eucla.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

sea moderate ; heavy ; very heavy.

Stations	Weather	Max	Min	Rain
Casino....	c	72	62	0
Tenterfield	u	72	60	0
Grafton..	b	80	63	0
Inverell..	b	80	63	0
Bourke ..	b	86	57	0
Narrabri..	b	93	65	0
Armidale .	b	73	42	0
Bendemeer	b	81	53	0
Gunnedah	..	..	..	..
Coonab'an	b	100	48	0
P. Macqrie	b	74	59	0
Murr'undi	b	77	52	0
Cassilis ..	b	86	.	0
Mus'brook	b	92	56	0
Dubbo...	b	83	64	0
Mudgee ..	b	83	59	0
Maitland .	c	80	59	0
Newcastle	b	76	63	0
Orange ..	b	85	43	0
Bathurst..	b	81	55	0
MtVictoria	c	82	50	0
Forbes...	b	82	63	0
SYDNEY	u	72	62	0
Wentw'th	b	95	60	0
Young...	b	80	61	0
Woll'gong	b	74	.	0
Moss Vale	c	78	54	0
Euston...	b	76	45	0
Goulburn.	b	90	55	0
Wagga...	b	86	60	0
Cape Geo.	c	74	.	0
Queanb'an	b	85	60	0
Deniliquin	b	90	59	0
Albury...	b	90	56	0
Bodalla ..	p	78	..	0
Cooma...	c	85	55	0
Eden.....	c	76	65	0
Gabo Isld.	c	73	60	0



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